Pioneer

AUDIO/VIDEO MULTICHANNEL RECEIVER

VSX-808RDS

Operating Instructions

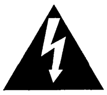
Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However the method of connecting and operating the unit is the same.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

This product complies with the Low Voltage Directive (73/23/EEC), EMC Directives (89/336/EEC, 92/31/EEC) and CE Marking Directive (93/68/EEC).

THE STANDBY/ON SWITCH IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN THE STANDBY POSITION.

IMPORTANT



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Power cord CAUTION!

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

Maintenance of External Surfaces

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

IMPORTANT

FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code :

Blue : Neutral
Brown : Live

If the plug provided is unsuitable for your socket outlets, the plug must be cut off and a suitable plug fitted.

The cut-off plug should be disposed of and must not be inserted into any 13 amp socket as this can result in electric shock. The plug or adaptor or the distribution panel should be provided with 5 amp fuse. As the colours of the wires in the mains lead of this appliance may not correspond with coloured markings identifying the terminals in your plug, proceed as follows :
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Do not connect either wire to the earth terminal of a three pin plug.

NOTE
After replacing or changing a fuse, the fuse cover in the plug must be replaced with a fuse cover which corresponds to the colour of the insert in the base of the plug or the word that is embossed on the base of the plug, and the appliance must not be used without a fuse cover. If lost replacement fuse covers can be obtained from: your dealer.
Only 5 A fuses approved by B.S.I. or A.S.T.A to B.S. 1362 should be used.

Features

MPEG (Moving Picture Experts Group) decoder equipped MPEG Multichannel

Playback of DVD and other media recorded in MPEG audio is possible.

The MPEG logo is a registered trademark of Royal Philips Electronics.

DTS (Digital Theater Systems) decoder equipped

DTS is a digital sound system introduced in theaters. Playback of DVD, LD, and CD recorded in DTS audio creates the environment of a theater or the sensation of a concert hall in your home.

"DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.
Manufactured under licence from Digital Theater Systems, Inc.

Dolby Digital and Dolby Pro Logic

No need to worry about program formats! When playing Dolby Digital or Dolby Pro Logic software in the DD (Dolby) mode, decoding switches automatically according to the input signal. All you have to do is sit back and enjoy! (When connecting a DVD/LD player or LD player using the AC-3 RF output, a commercially available RF demodulator (RFD-1) is required.)

Manufactured under license from Dolby Laboratories. "Dolby", "AC-3", "Pro Logic", and double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. © 1992 - 1997 Dolby Laboratories, Inc. All rights reserved.

ADVANCED THEATER modes

Four sound modes that enhance DTS and Dolby audio performance by simulating the environment of a movie theater (DRAMA, ACTION), or the ambience of a concert hall (MUSICAL). With 5-D THEATER, you can enjoy Dolby Pro Logic encoded software in simulated Dolby Digital.

Various Surround Effects (DSP)

The DSP (Digital Signal Processing) surround mode allows you to transform your living room into six different sonic environments when listening to music or watching movies.

Midnight Listening Mode

When late night hours or other factors require that the volume be kept low, the surround effects may tend to become less than satisfactory. When the midnight listening mode is on, you can enjoy the effects of quality surround sound even at low volumes.

Optical Digital Output

The digital signal input can be directly output to digital recording components such as MD, DAT and CD-R from the optical digital output jack to create digital recordings.

DIGITAL NR function

Noise in the playback source can be reduced to a minimum so you can enjoy a clearer sound.

5.1 Channel Input

By connecting components equipped with 5.1 channel output to the DVD 5.1 channel input on this unit, you can enjoy 5.1 channel surround sound. Connections can be made to a DVD player or Multi channel decoder equipped with 5.1 channel analog output jacks.

5 Channels of Independent Amplification

This receiver incorporates 5 independent 100 watt power amplifiers which enable high quality playback of Dolby Digital and DTS surround sound. This construction provides improved linearity and accurate reproduction of each channel for true high fidelity reproduction from even the most demanding Dolby Digital program sources.

Remote Control of Other Components

The supplied remote control can be used to operate a variety of other components simply by recalling the appropriate preset code. In addition, the multi-operation functions allow you to perform a variety of operations automatically.

RDS (Radio-Data System)

With the RDS system, FM stations can send additional signals with their regular program signals. For example, the stations send their station names, and information about the type of programs they broadcast, such as news, sports or music. This unit receives three types of RDS signals: RT, PS, and PTY.

The Energy-saving Design

This unit is designed to use minimal electricity when power is switched OFF (during Standby). Regarding the value of the power consumption in standby mode, refer to "Specifications" on the back cover.

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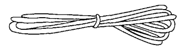
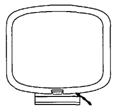
Introductory Information

Checking the Supplied Accessories

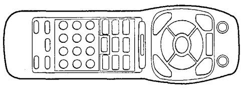
Please check that you have received all of the following accessories with the receiver.



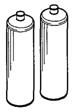
FM wire antenna



AM loop antenna



Remote control unit



"AA" IEC LR6 batteries x 2

How to Use This Manual

This manual is divided into two main sections :

SET UP

This section explains how to make the necessary connections from the receiver to your other audio and video components. Receiver operations described later in this section under the heading "Preparations" enable you to set up and customize your home entertainment center.

OPERATION

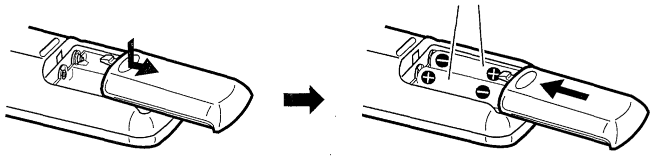
This section provides complete information about operation of the receiver and supplied remote control.

The following marks and symbols are used throughout this manual:

memo	Provides additional information, precautions, and advice.
✲	Indicates a blinking button, indicator, or display.
☀	Indicates a steadily lit button, indicator, or display.

Preparing the Remote Control

Loading the batteries



When you notice a decrease in the operating range of the remote control, replace all batteries with new ones.

memo When changing the batteries, it is recommended that you load new batteries within five minutes of removing the old batteries. If not, the preset codes may be canceled and you will need to set them again.

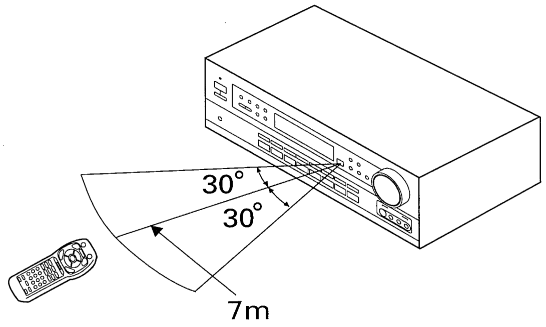
CAUTION!

Incorrect use of batteries may result in such hazards as leakage and bursting. Observe the following precautions.

- Never use new and old batteries together.
- Insert the plus and minus sides of the batteries properly according to the marks in the battery case.
- Batteries with the same shape may have different voltages. Do not use different batteries together.

Operating range of remote control unit

Point the remote control toward the remote sensor SR on the front panel of this unit to operate. The remote control unit will operate the receiver for up to a distance of 7 meters within 30° angle on each side of the sensor of the remote sensor as illustrated below.

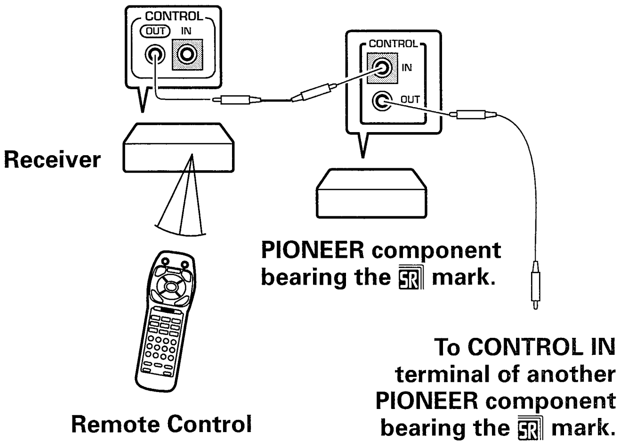


memo

Remote control may not function properly if :
- There are obstacles between the remote control and the remote sensor.
- Direct sunlight or fluorescent light is shining onto the remote sensor.
- The receiver is located near a device emitting infrared rays.
- Operated simultaneously with another remote control which uses infrared rays.

Operating other PIONEER components

Connecting an optional control cord allows you to operate other PIONEER components simply by pointing the receiver's remote control at the remote sensor on the front panel of the receiver. The receiver then sends the remote control signals to the other devices via the CONTROL OUT terminal.

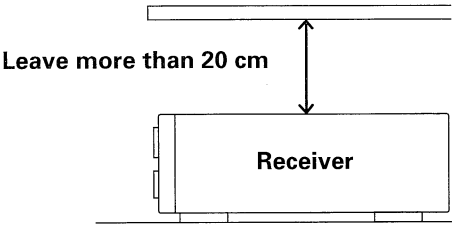

CONTROL
OUT
IN
CONTROL
IN
OUT
Receiver
PIONEER component bearing the SR mark.
To CONTROL IN terminal of another PIONEER component bearing the SR mark.
Remote Control

memo

You can also control PIONEER components (and those made by other manufacturers) by pointing the receiver's remote control directly at the respective component. This type of operation does not require control cords. All you have to do is recall the appropriate preset code (Refer to "Recalling preset codes" on page 22).

Receiver Installation

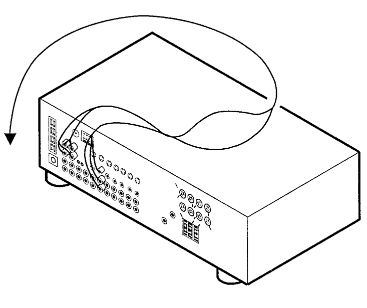
- Do not place objects directly on top of this unit. It will prevent proper heat dispersal.
- When installing in a rack, etc., be sure to leave more than 20 cm of space above the receiver.



memo

It is recommended that you place the receiver to the left of your cassette and/or video decks. This will prevent noise caused by leakage flux from the transformer in the receiver. If you experience noise during playback of your cassette and/or video decks, move them farther away from the receiver.

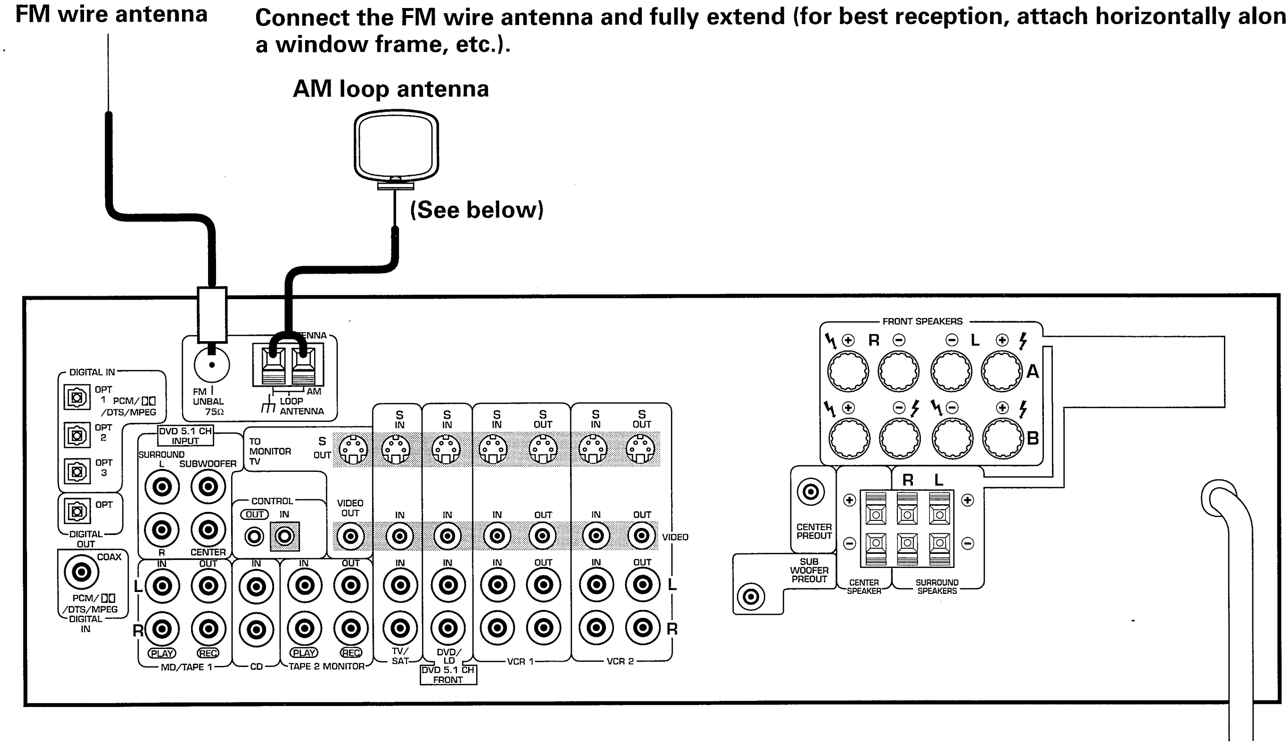
When Making Cable Connections



Be careful not to arrange cables in a manner that bends the cables over the top of this unit as shown in the illustration. If the cables are brought over this unit, the magnetic field produced by the transformers in this unit may cause a humming noise to come from the speakers.

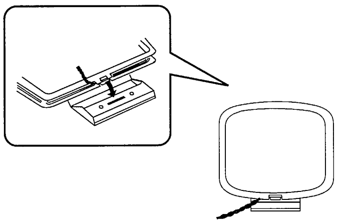
Antennas

Connect the FM wire antenna and fully extend (for best reception, attach horizontally along a window frame, etc.).

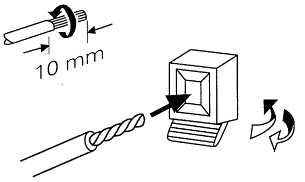

FM wire antenna
AM loop antenna
(See below)
FM UNBAL 75Ω
AM LOOP ANTENNA
DIGITAL IN
OPT 1 PCM/DD/DTS/MPEG
OPT 2
OPT 3
OPT
DIGITAL OUT
COAX PCM/DD/DTS/MPEG DIGITAL IN
DVD 5.1 CH INPUT
SURROUND L R
SUBWOOFER
CENTER
TO MONITOR TV
S OUT
CONTROL OUT IN
VIDEO OUT
S IN
S OUT
IN
OUT
VIDEO
L
R
PLAY
REC
MD/TAPE 1
CD
TAPE 2 MONITOR
TV/SAT
DVD/LD
DVD 5.1 CH FRONT
VCR 1
VCR 2
FRONT SPEAKERS
R
L
A
B
CENTER PREOUT
SUB WOOFER PREOUT
CENTER SPEAKER
SURROUND SPEAKERS

■ AM loop antenna

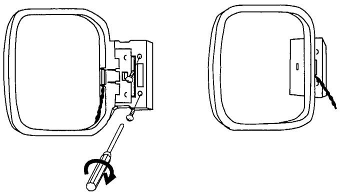
① Assemble the antenna.



② Twist exposed wire strands together and insert into AM antenna terminals.



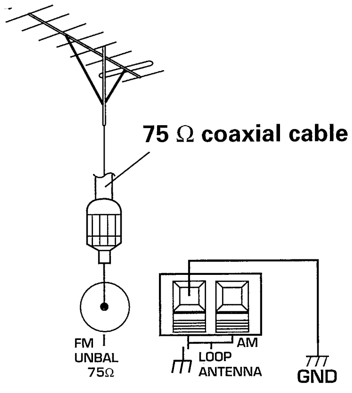
③ Attach to a wall, etc. (if desired) and face toward the direction providing the best reception.



Using external antennas

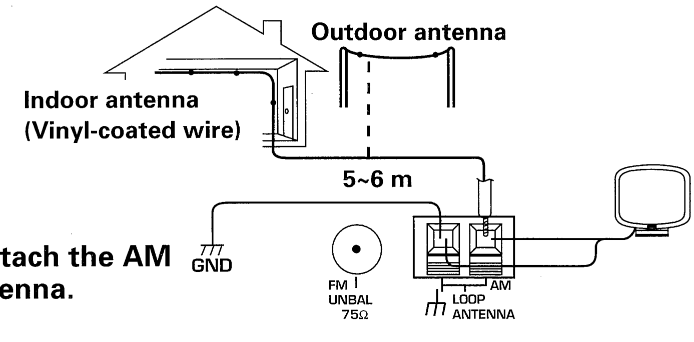
■ To improve FM reception

Connect an external FM antenna.


75 Ω coaxial cable
FM UNBAL 75Ω
AM
LOOP ANTENNA
GND

■ To improve AM reception

Connect a 5 to 6 meter length of vinyl-coated wire to the AM antenna terminal in addition to the supplied AM loop antenna.
For the best possible reception, suspend horizontally outdoors.

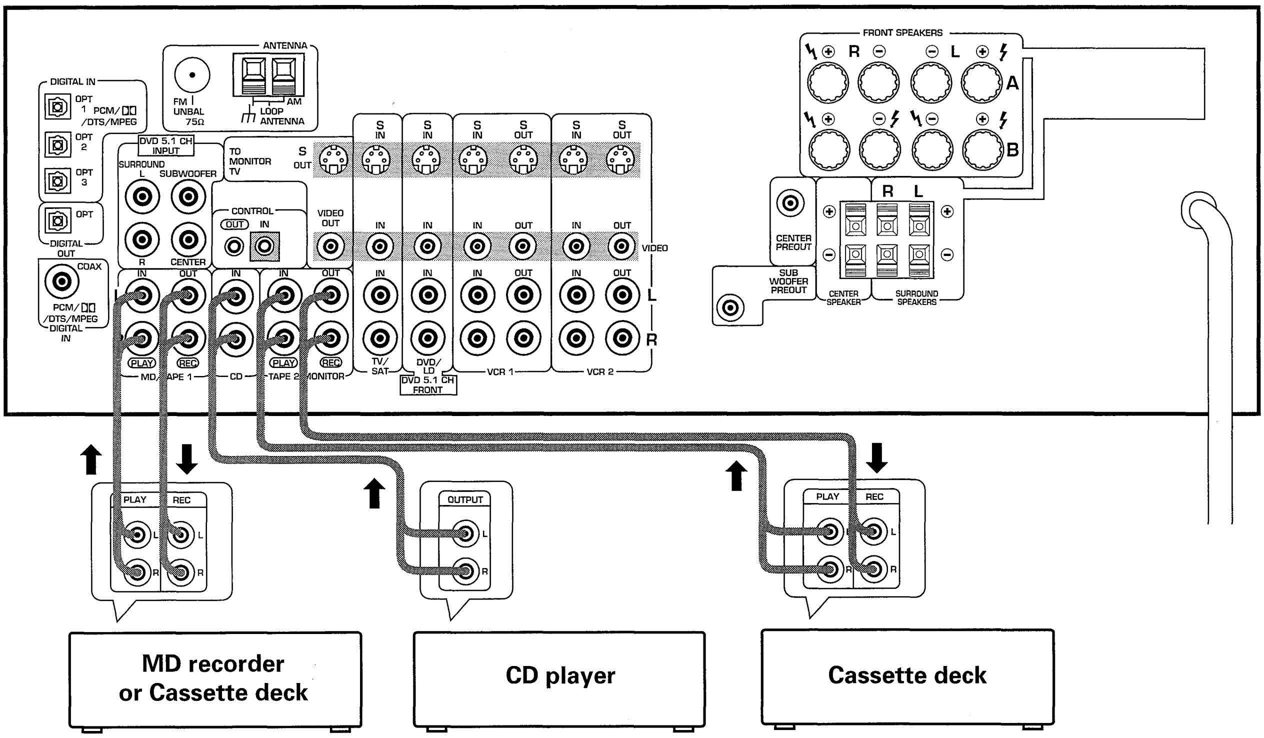

Outdoor antenna
Indoor antenna (Vinyl-coated wire)
5~6 m
GND
FM UNBAL 75Ω
AM
LOOP ANTENNA

Don't detach the AM loop antenna.

Audio Components Connections

Be sure to switch power to standby and remove the power cord from the wall outlet when you make or change connections.

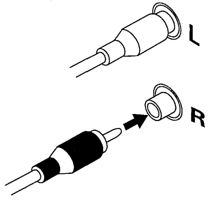
Connect your audio components as shown below. Refer to "Digital Connections" on page 11 when making digital connections from your DVD or LD player.


ANTENNA
DIGITAL IN
OPT 1 PCM/DD /DTS/MPEG
OPT 2
OPT 3
OPT
DIGITAL OUT
COAX
PCM/DD /DTS/MPEG DIGITAL IN
FM UNBAL 75Ω
AM LOOP ANTENNA
DVD 5.1 CH INPUT
SURROUND L SUBWOOFER
R CENTER
TO MONITOR TV
S OUT
CONTROL OUT IN
VIDEO OUT
S IN
S OUT
IN
OUT
VIDEO
L
R
PLAY
REC
MD/TAPE 1
CD
TAPE 2 MONITOR
TV/SAT
DVD/LD
DVD 5.1 CH FRONT
VCR 1
VCR 2
FRONT SPEAKERS
R
L
A
B
CENTER PREOUT
SUB WOOFER PREOUT
CENTER SPEAKER
SURROUND SPEAKERS
PLAY
REC
OUTPUT
MD recorder or Cassette deck
CD player
Cassette deck

*The arrows indicate the direction of the audio signal.

■ Audio cords

Use audio cords (not supplied) to connect the audio components.



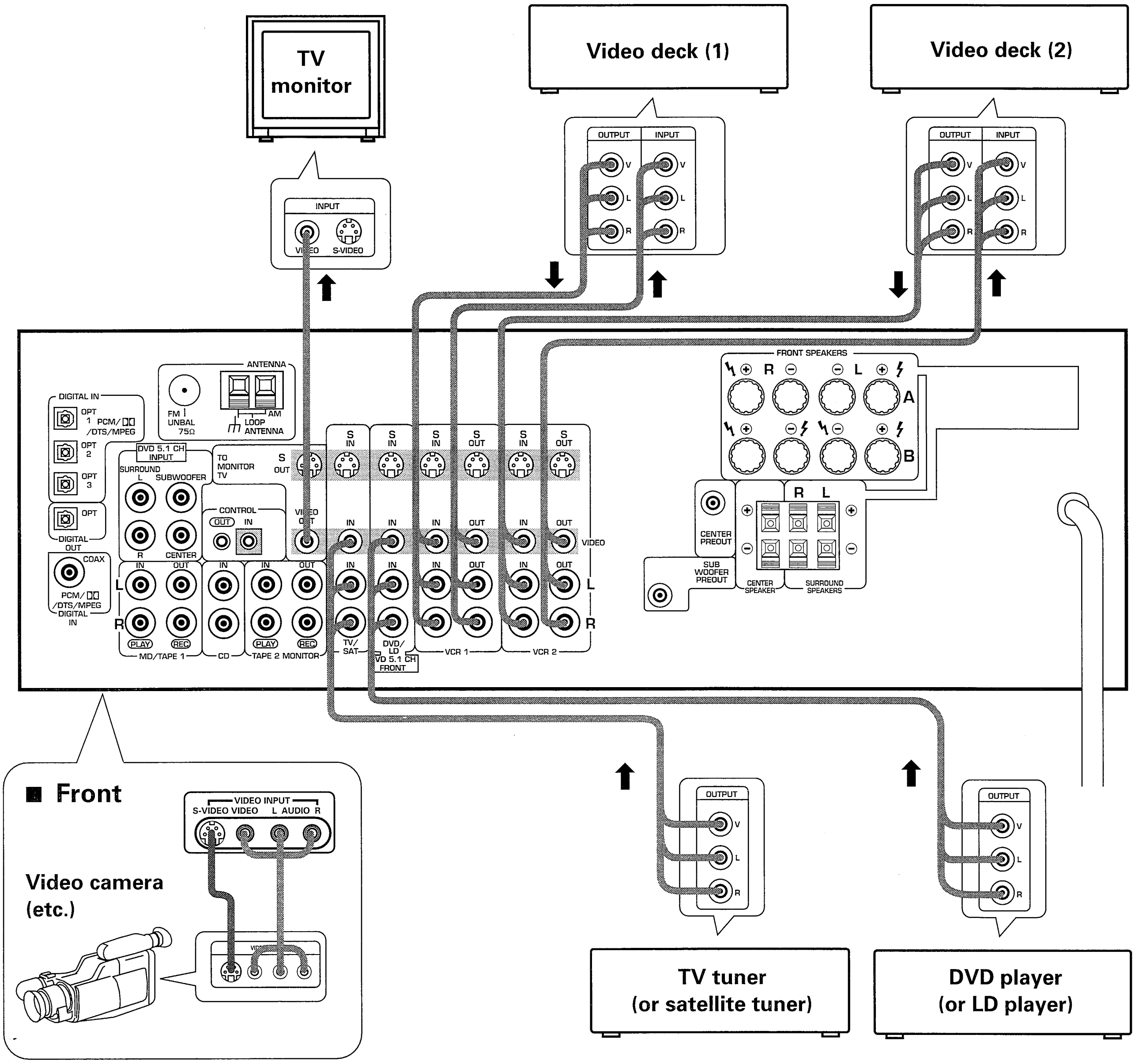
Connect red plugs to R (right) and white plugs to L (left).
Be sure to insert completely.

Cassette deck placement

Depending on where the cassette deck is placed, noise may occur during playback of your cassette deck which is caused by leakage flux from the transformer in the receiver. If you experience noise, move the cassette deck farther away from the receiver.

Video Components Connections

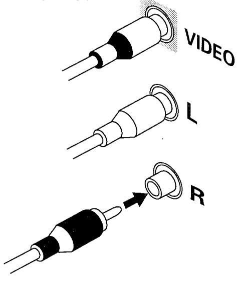
- When connecting components, the receiver should be off and the power cord unpluged.
- Connect your video components as shown below. Also, refer to "Digital Connections" on page 11 when making digital connections from your DVD or LD player.
- If your TV monitor or video camera has an S-Video input, clearer picture reproduction is possible by connecting the receiver to your TV monitor or video camera via the S-Video jack.


TV monitor
INPUT
VIDEO
S-VIDEO
Video deck (1)
Video deck (2)
OUTPUT
INPUT
V
L
R
ANTENNA
DIGITAL IN
OPT 1 PCM/DD /DTS/MPEG
OPT 2
OPT 3
OPT
DIGITAL OUT
COAX
PCM/DD /DTS/MPEG
DIGITAL IN
FM UNBAL 75Ω
AM LOOP ANTENNA
DVD 5.1 CH INPUT
SURROUND
SUBWOOFER
CENTER
TO MONITOR TV
S OUT
VIDEO OUT
CONTROL
OUT
IN
S IN
S OUT
VIDEO
MD/TAPE 1
CD
TAPE 2 MONITOR
PLAY
REC
TV/SAT
DVD/LD
DVD 5.1 CH FRONT
VCR 1
VCR 2
FRONT SPEAKERS
A
B
CENTER PREOUT
SUB WOOFER PREOUT
CENTER SPEAKER
SURROUND SPEAKERS
■ Front
VIDEO INPUT
S-VIDEO VIDEO L AUDIO R
Video camera (etc.)
OUTPUT
TV tuner (or satellite tuner)
DVD player (or LD player)

memo When connecting components equipped with S-video jacks, you can make connections to this unit using S-video cords (not supplied). However, this unit is not designed to convert the format of the video signal. Therefore, the signal from the S IN cannot be output from the VIDEO OUT and similarly the signal from the VIDEO IN cannot be output from the S OUT.

■ Audio/Video cords

Use audio/video cords (not supplied) to connect the video components and a video cord to connect the TV or monitor.



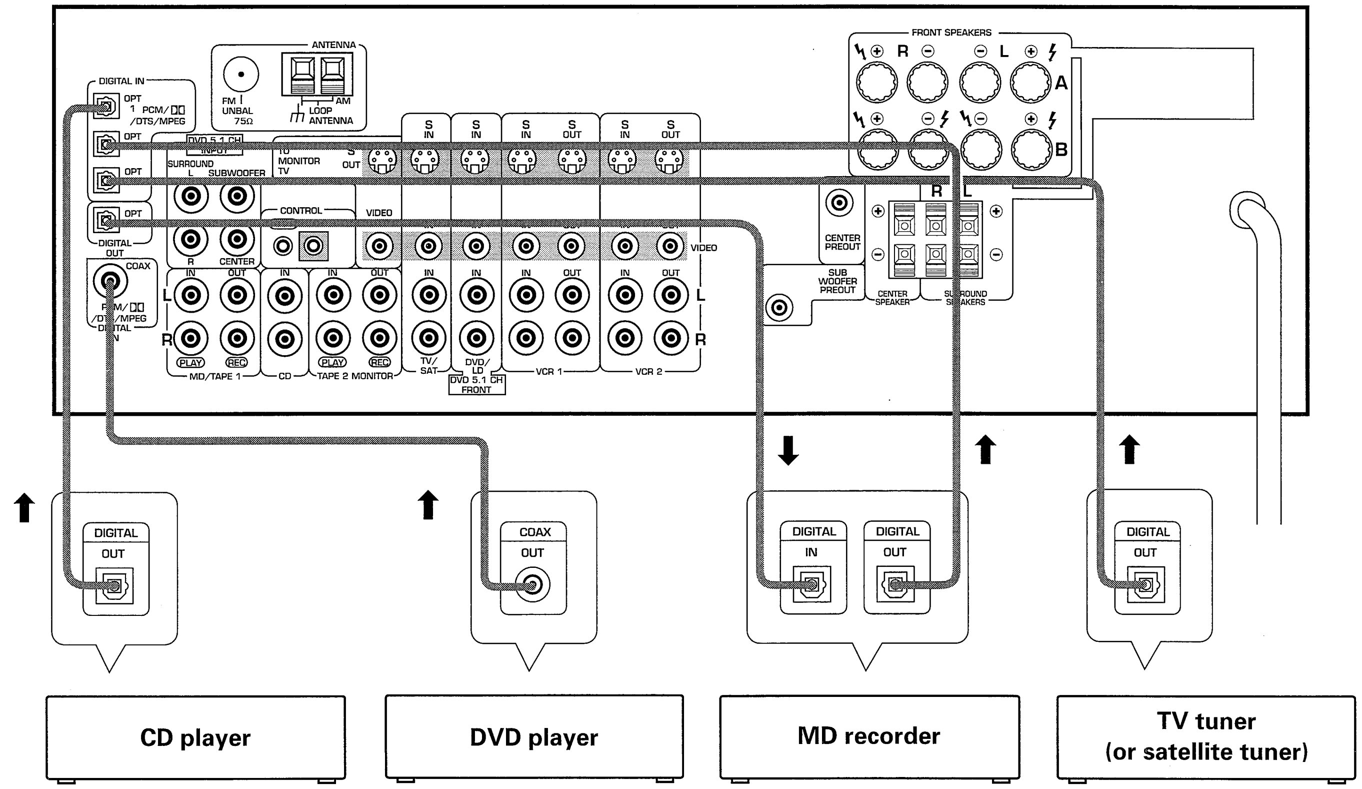
Connect red plugs to R (right), white plugs to L (left), and the yellow plugs to VIDEO.

Be sure to insert completely.

Digital Connections

Digital components can be connected as shown below. You can select up to four of the following be assigned to the digital inputs on this unit: DVD/LD, TV/SAT, MD/TAPE, CD, VCR1. To assign the digital inputs, refer to "Setting Up for Surround Sound" on page 16.

The digital signal input is output directly to digital recording components from the optical digital output jack.


DIGITAL IN
OPT 1 PCM/DD/DTS/MPEG
OPT
OPT
OPT
DIGITAL OUT
COAX
PCM/DD/DTS/MPEG DIGITAL IN
ANTENNA
FM UNBAL 75Ω
AM LOOP ANTENNA
DVD 5.1 CH INPUT
SURROUND L SUBWOOFER
R CENTER
MONITOR TV
CONTROL
VIDEO
S IN
S OUT
IN
OUT
L
R
PLAY
REC
MD/TAPE 1
CD
TAPE 2 MONITOR
TV/SAT
DVD/LD
DVD 5.1 CH FRONT
VCR 1
VCR 2
FRONT SPEAKERS
A
B
CENTER PREOUT
SUB WOOFER PREOUT
CENTER SPEAKER
SURROUND SPEAKERS
DIGITAL OUT
COAX OUT
DIGITAL IN
DIGITAL OUT
DIGITAL OUT
CD player
DVD player
MD recorder
TV tuner (or satellite tuner)

memo

When playing LD recorded in Dolby Digital

When connecting a DVD/LD player or LD player using the AC-3 RF output, a commercially available RF demodulator (RFD-1) is required. The RF demodulator changes the RF signal to a digital signal which is then processed by the receiver through the digital input jacks. For more details, refer to the instruction manual supplied with the RFD-1.

The factory setting for each of the digital inputs is described below.

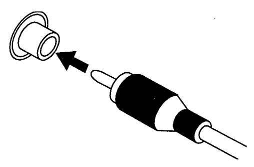
COAX : DVD
OPT 1 : CD
OPT 2 : MD
OPT 3 : TV

■ Digital audio cords/Fiber-optic cables

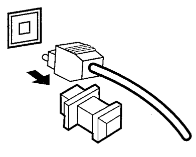
Commercially available digital audio coaxial cords (standard video cords can also be used) or fiber-optic cables (not supplied) are used to connect digital components to this receiver.

When you use optical digital input or output terminals, pull off the caps and insert the plugs. Be sure to insert completely.

Digital audio cord (or standard video cord)



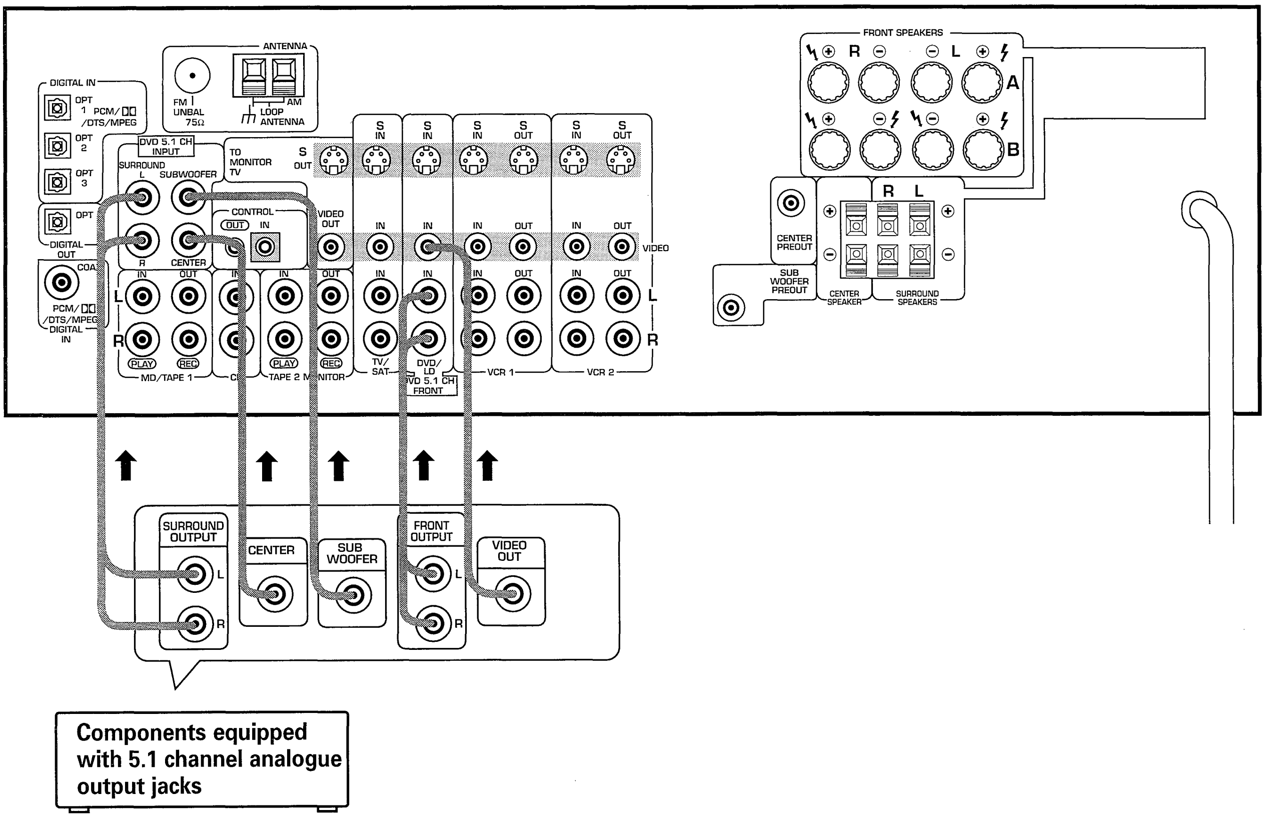
Fiber-Optic cable



DVD 5.1 Channel Connection

DVD and LD discs are often compatible with both 2 channel and 5.1 channel audio output formats. Refer to page 33 for more information on how to switch between the two input methods.

Connections can be made from a DVD player, or Multi channel decoder equipped with 5.1 analog outputs to the 5.1 analog inputs on this unit.

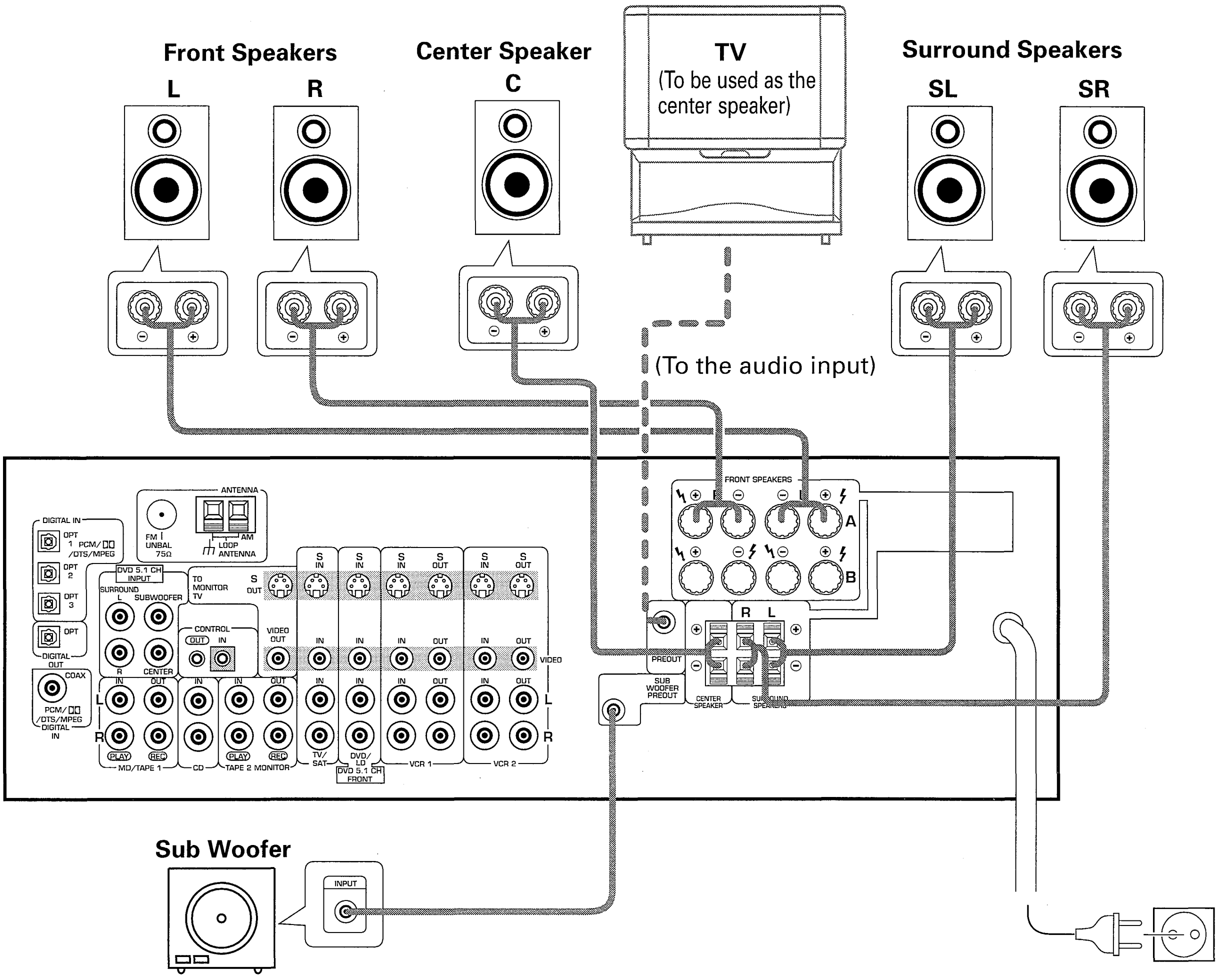

ANTENNA
FM UNBAL 75Ω
AM LOOP ANTENNA
DIGITAL IN
OPT 1 PCM/DD/DTS/MPEG
OPT 2
OPT 3
OPT
DIGITAL OUT
COAX PCM/DD/DTS/MPEG DIGITAL IN
DVD 5.1 CH INPUT
SURROUND L
SUBWOOFER
R
CENTER
TO MONITOR TV
S OUT
CONTROL OUT IN
VIDEO OUT
S IN
S OUT
IN
OUT
VIDEO
L
R
PLAY
REC
MD/TAPE 1
TAPE 2 MONITOR
TV/SAT
DVD/LD
DVD 5.1 CH FRONT
VCR 1
VCR 2
FRONT SPEAKERS
A
B
CENTER PREOUT
SUB WOOFER PREOUT
CENTER SPEAKER
SURROUND SPEAKERS
SURROUND OUTPUT
CENTER
SUB WOOFER
FRONT OUTPUT
VIDEO OUT
Components equipped with 5.1 channel analogue output jacks

memo

The 5.1 channel input can only be used when DVD/LD is selected.

Speakers

- Use speakers with a nominal impedance of 8 Ω to 16 Ω.
- The front speaker B terminal is only used in stereo mode (Not available during DVD 5.1 channel, DSP mode, or Dolby/ DTS/MPEG mode).
- When you use the speaker on your TV as a center speaker, please connect the CENTER PREOUT jack on this unit to the audio input jack on your TV. In this case, the center speaker shown below is unnecessary. Refer to the instruction manual supplied with the TV or monitor you are connecting to for more information.
- You can set the configuration of your speaker system, whether the sizes of the speakers are large or small, and whether or not you have a sub woofer connected. (Refer to pages 16 to 18)


Front Speakers
L
R
Center Speaker
C
TV
(To be used as the center speaker)
Surround Speakers
SL
SR
(To the audio input)
FRONT SPEAKERS
A
B
R L
PREOUT
SUB WOOFER PREOUT
CENTER SPEAKER
SURROUND SPEAKER
ANTENNA
DIGITAL IN
DIGITAL OUT
Sub Woofer
INPUT

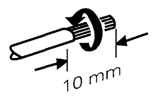
Amplified Sub Woofer

Connection methods that differ from the example shown in this manual may be available. For more details, refer to the instruction manual supplied with the sub woofer.

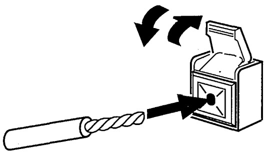
Be sure to complete all other connections before connecting this unit to the AC power source.

■ Speaker terminals

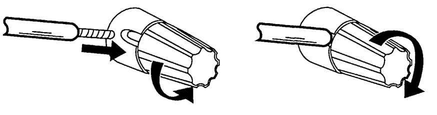
Twist exposed wire strands together.



Push tab to the open position, and insert the wire. Then, close tab firmly to secure the wire in place.



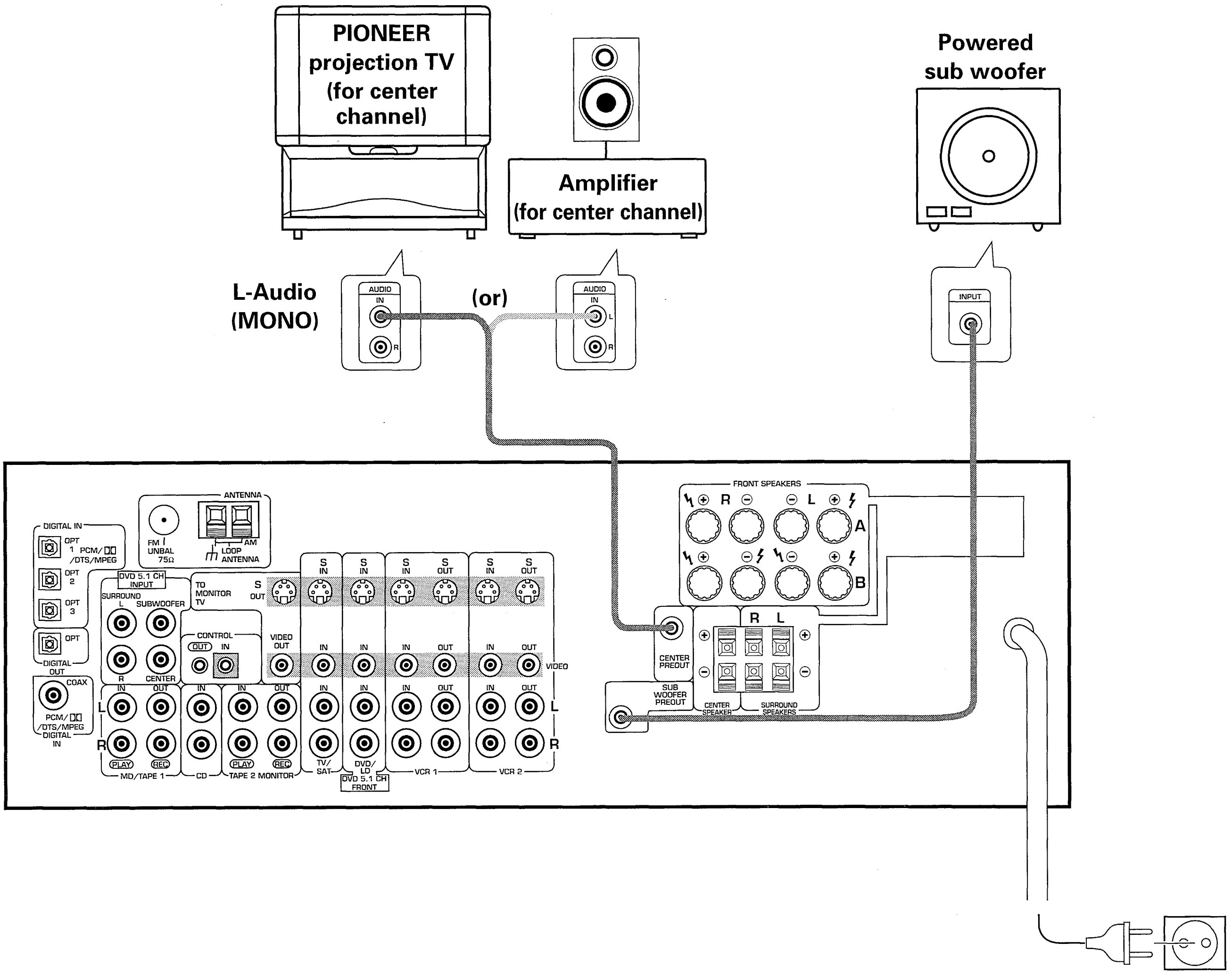
Turn counter-clockwise to loosen, and insert the wire. Then turn clockwise to tighten.



Connecting additional amplifiers

To use separate amplifiers to power your center speaker, make the connections shown below.

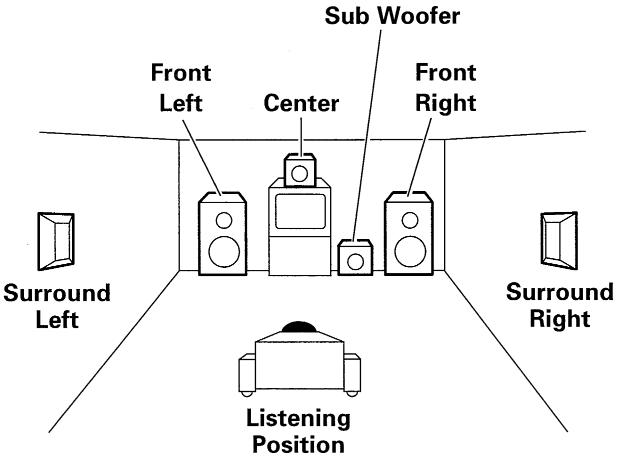
memo Do not make simultaneous connections to both the CENTER PREOUT jack and the CENTER SPEAKER terminals. (i.e. Do not connect a separate power amplifier to the CENTER PREOUT jack if you have already connected a center speaker to the CENTER SPEAKER terminal.)


PIONEER projection TV (for center channel)
Amplifier (for center channel)
Powered sub woofer
L-Audio (MONO)
(or)
AUDIO IN
R
L
INPUT
ANTENNA
DIGITAL IN
FRONT SPEAKERS
A
B
CENTER PREOUT
SUB WOOFER PREOUT
CENTER SPEAKER
SURROUND SPEAKERS
VIDEO
MD/TAPE 1
CD
TAPE 2 MONITOR
TV/SAT
DVD/LD
VCR 1
VCR 2

Be sure to complete all other connections before connecting this unit to the AC power source.

Speaker placement

To achieve the best possible surround sound, install your speakers as shown below. Be sure all speakers are installed securely to prevent accidents and improve sound quality.



memo

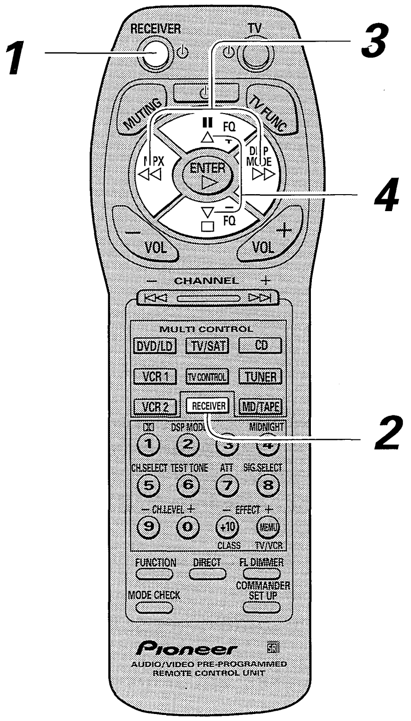
- Install the left and right front speakers at equal distances from the TV.
- When installing speakers near the TV, we recommend using magnetically shielded speakers to prevent possible interference such as distortion in the color of the TV screen. If you do not have magnetically shielded speakers and notice discoloration of the TV screen, place the speakers farther away from the TV.
- Install the center speaker above, below the TV so that the sound of the center channel is localized at the TV screen.

CAUTION:
When installing the center speaker on top of the TV, be sure to secure it with tape or some other suitable means.
Otherwise, the speaker may fall from the TV due to external shocks such as earthquakes, and it may lead to endangering those nearby or damaging the speaker.

- If possible, install the surround speakers slightly above ear level.
- It may be difficult to obtain a cohesive surround effect if the surround speakers are installed farther away from the listening position than the front and center speakers.

Setting Up for Surround Sound

Be sure to switch the power of this unit on (The STANDBY indicator goes out).
To ensure the best possible surround sound, be sure to complete the following set up operations. This is particularly important when using the DD (Dolby) sound mode. You only need to make these settings once (unless you change the placement of your current speaker system or add new speakers, etc.). Refer to the following pages for detailed descriptions of the settings available for each mode.



memo

- Press ENTER to exit the setting mode.
- The setting mode is automatically exited if no operation is performed for 20 seconds.

1 Press RECEIVER to turn the power on.

The STANDBY indicator goes out.

2 Press RECEIVER.

This switches the remote to the surround setup mode.

3 Press ◁◁ or ▷▷ to select the mode you desire.

For best results, start with "SPEAKER setting mode" and make your initial adjustments in the order described below.

The current settings are displayed automatically.

SPEAKER (Front, Center, Surround) setting mode (page 17)
Use to specify the type of speakers you have connected.

SUB WOOFER ON/OFF setting mode (page 18)
Use to specify the sub woofer as on or off.

Crossover frequency setting mode (page 18)
Use to determine which frequencies will be sent to the sub woofer or "Large" speakers.

LFE attenuator setting mode (page 18)
Use to specify the peak level for the LFE channel and the crossover network for rerouted bass frequencies.

Low cut filter ON/OFF setting mode (page 19)
Use to cut the distorted sound from the sub woofer.

FRONT speaker distance setting mode (page 19)
Use to specify the distance from your listening position to your front speaker.

CENTER speaker distance setting mode (page 19)
Use to specify the distance from your listening position to your center speaker.

SURROUND speaker distance setting mode (page 19)
Use to specify the distance from your listening position to your surround speakers.

Dynamic range control setting mode (page 20)
Use to compress the dynamic range of the sound track.

Coaxial digital input setting (page 20)
Use to specify the input to be assigned to the coaxial digital input.

Optical digital input 1 setting (page 20)
Use to specify the input to be assigned to the optical digital input 1.

Optical digital input 2 setting (page 20)
Use to specify the input to be assigned to the optical digital input 2.

Optical digital input 3 setting (page 21)
Use to specify the input to be assigned to the optical digital input 3.

4 Press △ or ▽ to select the setting you desire.

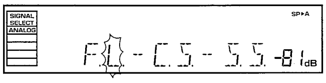
The setting is entered automatically.

5 Repeat steps 3 and 4 to set other surround modes.

SPEAKER setting mode

Establishes the size and configuration of the speaker system you have connected.
In the display, "F", "C", and "S" refer to front, center, and surround speakers respectively. Speaker size is denoted as "L" for large speakers, "S" for small speakers, and "*" (asterisk) if no speaker is connected.

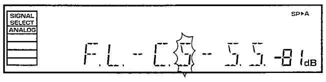
memo If the cone size of your speaker is larger than 12 cm, please set to Large.



1 Press △ or ▽ to set the front speaker.

Front speaker (initial setting is "L (Large)")

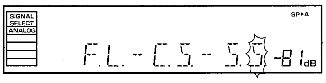
- Select "FL" if your speakers will reproduce bass frequencies effectively or if you did not connect a sub woofer.
- Select "FS" to send bass frequencies to the sub woofer. (The center and surround speakers cannot be set to Large if the front speakers are set to Small. In this case, all bass frequencies are sent to the sub woofer.)



2 Press △ or ▽ to set the center speaker.

Center speaker (initial setting is "L (Large)")

- Select "CL" if your speaker will reproduce bass frequencies effectively.
- Select "CS" to send bass frequencies to the other speakers or sub woofer.
- Select "C*" if you did not connect a center speaker. In this case, the center channel is output from the front speakers.



3 Press △ or ▽ to set the surround speaker.

Surround speaker (initial setting is "L (Large)")

- Select "SL" if your speakers will reproduce bass frequencies effectively.
- Select "SS" to send bass frequencies to the other speakers or sub woofer.
- Select "S*" if you did not connect surround speakers. In this case, the sound of the surround channels is output from the front and center speakers.

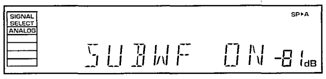
* Press ▷▷ to advance to the next setting, and press ◁◁ to return to previous setting.

SUB WOOFER ON/OFF setting mode

Sets whether the SUB WOOFER is used or not.

memo

- Initial setting is "ON".
- Setting the front speaker size to "Small" in the SPEAKER setting mode automatically locks the sub woofer in the "ON" position.



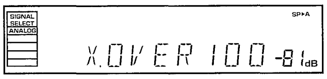
Press △ or ▽ to select sub woofer ON or OFF.

Crossover frequency setting mode

Setting speakers to "Small" in "SPEAKER setting mode" sends the respective channels' bass frequencies to the sub woofer (or "Large" speakers). This function lets you determine which frequencies will be sent to the sub woofer or "Large" speakers.

memo

- Initial setting is "100 Hz".
- If all speakers (front, center, and surround) are set to "Large" in SPEAKER setting mode, crossover frequency cannot be set. (*** appears in the display.)



Press △ or ▽ to specify the crossover frequency for your small speakers (100 Hz, 150 Hz or 200 Hz).

100 Hz

Sends bass frequencies below 100 Hz to the sub woofer (or Large speakers).

150 Hz

Sends bass frequencies below 150 Hz to the sub woofer (or Large speakers).

200 Hz

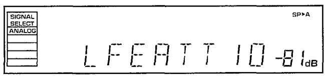
Sends bass frequencies below 200 Hz to the sub woofer (or Large speakers). We recommend setting 200 Hz when only small speakers are used.

LFE attenuator setting mode

Dolby Digital and DTS audio sources include ultra-low bass tones. Set the LFE attenuator as needed to prevent the ultra-low bass tones from distorting the sound from the speakers.

memo

- Initial setting is "0 dB".
- When ∞ is selected (** appears in the display), LFE is not available.

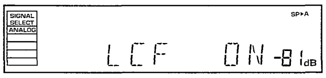


Press △ or ▽ to set the attenuation level (0 dB, 10 dB or ** dB (∞)).

Low cut filter ON/OFF setting mode

Turn the low cut filter ON when distorted sound is output through the sub woofer.

memo
- Initial setting is "OFF".
- If the SUB WOOFER is set to "OFF" in the SUB WOOFER ON/OFF setting mode, the low cut filter cannot be set.
- The low cut filter is not effective when DTS signals are input.

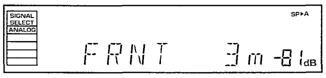


Press △ or ▽ to select low cut filter ON or OFF.

FRONT speaker distance setting mode

Sets the distance from the FRONT speaker to the listening position.

memo
- Initial setting is 3 m.
- One step equals about 0.3 m.

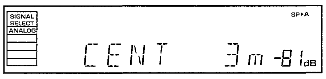


Press △ or ▽ to set the distance of the FRONT speaker from the main listening position (up to 30 steps).

CENTER speaker distance setting mode

Normally as the Center speaker is placed directly in front in the listening room, it is closer to the listening position than the Front speakers. This means that the sound from the Center speaker will be heard before the Front speakers. To prevent this, set the Center speaker distance setting to delay the sound from the Center speaker so that the sound from the Front and Center speakers will be heard at the same time.

memo
- Initial setting is 3 m.
- When "C*" is selected in SPEAKER setting mode, the Center distance cannot be set.
- One step equals about 0.3 m.

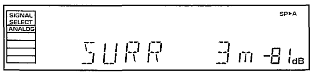


Press △ or ▽ to set the distance of the CENTER speaker from the main listening position (up to 30 steps).

SURROUND speaker distance setting mode

Use to set the SURROUND speaker distance. Like the CENTER speaker position, the SURROUND speakers may be set in a location closer or farther than the FRONT speakers. Set the distance of the SURROUND speakers accurately to hear sounds coming from both FRONT and SURROUND speakers at the same time.

memo
- Initial setting is 3 m.
- When "S*" is selected in SPEAKER setting mode, the SURROUND distance cannot be set.
- One step equals about 0.3 m.



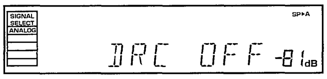
Press △ or ▽ to set the distance of the SURROUND speaker from the main listening position (up to 30 steps).

Dynamic range control setting mode

Dynamic range is the difference between the loudest and softest sounds in any given signal. The dynamic range control helps you play back sounds so the quieter sounds are audible yet the louder sounds don't get distored. It does this by compressing the dynamic range. When watching a movie at low volume, setting this function enables low level sounds to be heard more easily.

memo

- Initial setting is "OFF".
- When the volume level is increased, set to OFF.
- For listening enjoyment at low volumes, set to "MAX" for maximum dynamic range compression.
- Dynamic range control is effective only when a Dolby Digital signal is being played back.


SIGNAL SELECT ANALOG
SP▸A
DRC OFF -81dB

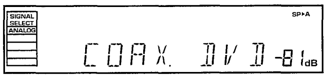
Press △ or ▽ to set the dynamic range control (OFF, MAX, or MID).

Coaxial digital input setting

Sets the input component to be assigned to the coaxial digital input jack.

memo

- Initial setting is "DVD".


SIGNAL SELECT ANALOG
SP▸A
COAX. DVD -81dB

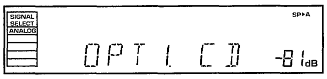
Press △ or ▽ to select the coaxial digital input (DVD, TV, CD, MD, VCR 1, or OFF).

Optical digital input 1 setting

Sets the input component to be assigned to the optical input 1 jack.

memo

- Initial setting is "CD".


SIGNAL SELECT ANALOG
SP▸A
OPT1. CD -81dB

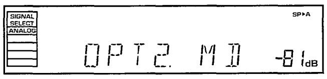
Press △ or ▽ to select the optical digital input 1 (DVD, TV, CD, MD, VCR 1, or OFF).

Optical digital input 2 setting

Sets the input to be assigned to the optical input 2 terminal.

memo

- Initial setting is "MD".

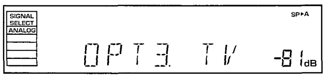

SIGNAL SELECT ANALOG
SP▸A
OPT2. MD -81dB

Press △ or ▽ to select the optical digital input 2 (DVD, TV, CD, MD, VCR 1, or OFF).

Optical digital input 3 setting

Sets the input component to be assigned to the optical input 3 jack.

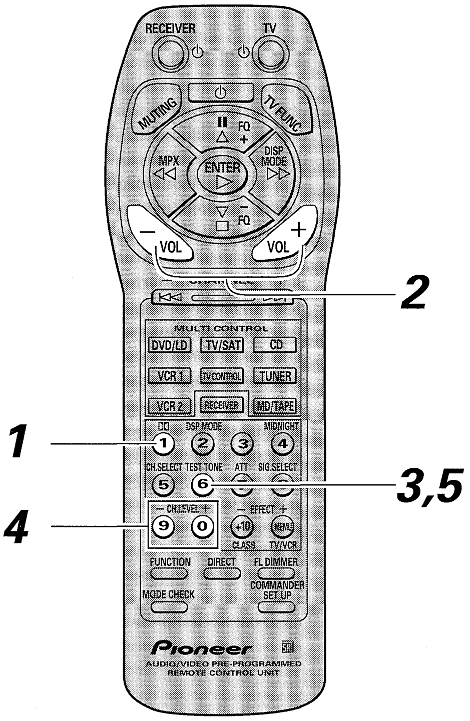
memo
- Initial setting is "TV".
- You cannot assign the same component to more than one digital input jack. The jack most recently selected is established for the component and the jack formerly selected is turned off.
- DVD/LD, TV/SAT, CD, MD/TAPE, VCR 1 digital input connection is possible.


SIGNAL SELECT
ANALOG
SP▸A
OPT3 TV -81dB

Press △ or ▽ to set the optical digital input 3 (DVD, TV, CD, MD, VCR 1).

Setting the volume level of each channel (Adjusting the speaker volume balance)

memo
- Sound from the SUB WOOFER seems quiet.
- The speaker volume can be adjusted without outputting the test tone by pressing CHANNEL LEVEL or CHANNEL SELECT .
- Initial setting is 0 dB.

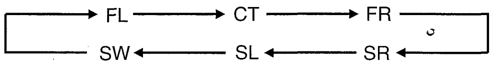

RECEIVER
TV
MUTING
TV FUNC
MPX
ENTER
DISP MODE
FQ
VOL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH.SELECT
TEST TONE
ATT
SIG.SELECT
CH.LEVEL
EFFECT
+10
MEMO
CLASS
TV/VCR
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
COMMANDER SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT
1
4
2
3,5

1 **Press ◫◫ .**

2 **Press VOL + or – to adjust the volume to an appropriate level.**

3 **Press TEST TONE to output the test tone.**

The test tone is output in the following order.


FL
CT
FR
SR
SL
SW

memo
- Test tone is only output in Dolby/DTS/MPEG mode.

4 **Adjust speaker levels so that you hear the test tone at the same volume from each speaker when seated in the main listening position.**

The channel level ranges ± 10 dB.

memo
- Levels can be set for each surround mode.
- When both the DSP mode and Dolby Surroud mode are turned on, priority is given to the Dolby Surround mode.

5 **Press TEST TONE to turn off the test tone.**

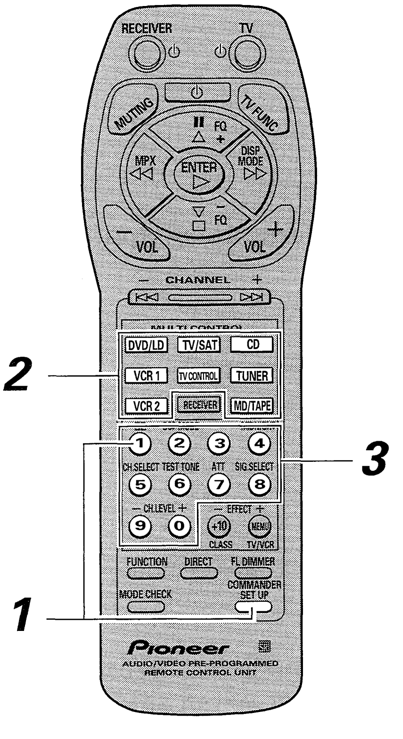
Setting Up the Remote Control

In addition to controlling the receiver, the supplied remote control can operate your other components (DVD, MD, VCR, TV, LD, CD, etc.). If your component(s) are listed in the "Preset Code List" on page 64, simply recall the corresponding preset code.

Recalling preset codes

The following steps show you how to recall preset codes for each MULTI CONTROL button. Once the preset code is assigned, pressing the button will automatically set the remote to operate the respective component.

memo
- Refer to "Preset Code List" on page 64 for the components and manufacturers available.
- Refer to "Remote Controlling Other Components" on pages 49 to 55 and "Background Control of Other Components" on page 56 for detailed explanations on how to operate your other components.


RECEIVER
TV
MUTING
TV FUNC
FQ
DISP MODE
MPX
ENTER
VOL
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
CH SELECT
TEST TONE
ATT
SIG SELECT
CH LEVEL
EFFECT
CLASS
TV/VCR
MENU
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
COMMANDER SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT
2
3
1

1 Press COMMANDER SET UP and 1 at the same time to select the preset mode.

The MULTI CONTROL buttons on the remote control start to blink.

To cancel the preset mode

Press COMMANDER SET UP.

2 Press the MULTI CONTROL button for the component you want to control.

Each button can be set to control one of the following components

DVD/LD : DVD/LD player
TV/SAT : TV or Satellite tuner
CD : CD player
MD/TAPE : MD recorder or Tape recorder
VCR 1 : Video deck
VCR 2 : Video deck
TV CONTROL : TV or Cable TV tuner

The selected button lights steadily and the first manufacturer (and preset code(s)) appear in the display.

3 Point the remote control toward the component to be controlled, enter the 3 digit setup code.

When a three digit code number is input, a power ON/OFF signal is output from the remote control unit. If the power of the device turns ON or OFF corresponding to this signal, it indicates that the device has been set properly. If the power does not turn ON/OFF, input another code.

Repeat steps 2 through 3 to assign preset codes for as many components as necessary.

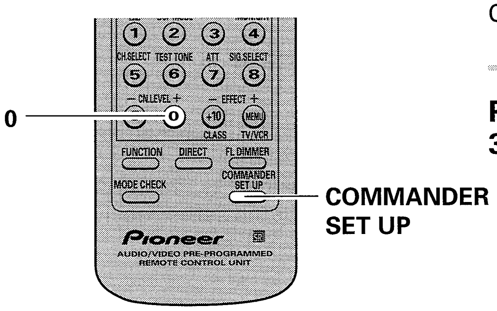
4 Press COMMANDER SET UP to exit the preset mode.

The remote control returns to the previous operation mode.

memo

- When operating a PIONEER'S DVD/LD player, set the manufacturer code to "000" in the preset mode.
- RECEIVER cannot be preset.

Clearing the Remote Control Settings

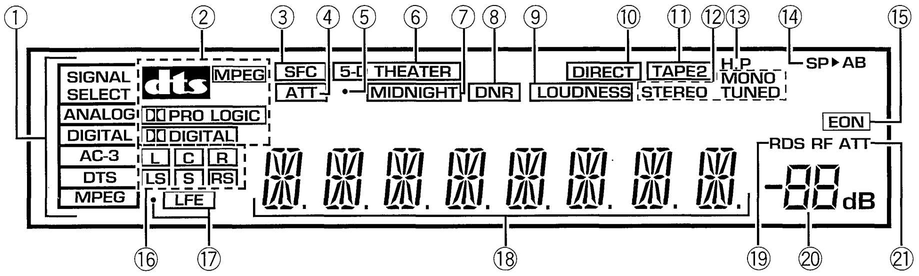

0
COMMANDER SET UP
CH.SELECT TEST TONE ATT SIG.SELECT
– CH.LEVEL + – EFFECT +
CLASS TV/VCR
FUNCTION DIRECT FL DIMMER
MODE CHECK COMMANDER SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT

Clears all presets and restores factory installed presets.

Press COMMANDER SET UP and 0 at the same time for more 3 seconds.

- All the multi-control buttons on the remote control blinks. After blinking three times, all the settings are canceled.

Display



① SIGNAL SELECT indicators

Light to indicate the type of input signal selected for the current component (refer to "Front Panel", ⑱, SIGNAL SELECT on page 27).

ANALOG : Lights when the analog audio signals are selected.

DIGITAL : Lights when the digital audio signals are selected.

AC-3 : Lights when a source with Dolby Digital signals is played.

DTS : Lights when a source with DTS audio signals is played.

MPEG : Blinks when the MPEG mode is selected, and lights when a source with MPEG audio signals is played.

② Digital indicators

dts : Lights when DTS signals are input. (Dolby/DTS/MPEG mode is ON)

MPEG : Lights when MPEG signals are input. (Dolby/DTS/MPEG mode is ON)

DDPRO LOGIC : When the Dolby mode on the receiver is on, this indicator lights during 2 channel playback of Dolby Digital sources.

DDDIGITAL : When the Dolby mode on the receiver is on, this indicator lights to indicate playback of a Dolby Digital signal. However, DD PRO LOGIC lights during 2 channel playback of Dolby Digital.

③ SFC (DSP) mode indicator

Lights when the DSP mode or ADVANCED THEATER mode (except for 5-D THEATER) is selected.

④ ATT indicator

Lights when ATT (refer to "Remote Control", ⑦, Number buttons on page 25) is used to reduce the level of the input signal (available in ANALOG mode only).

⑤ Overload indicator

When "ANALOG" is selected in SIGNAL SELECT, this indicator lights to show that an excessively strong signal is being processed. When this occurs, press ATT on the remote control to attenuate the signal. Also, when "DIGITAL" is selected in SIGNAL SELECT, this indicator lights to show that a source containing an excessive amount of information is being processed. When this occurs, refer to pages 31 and 32.

⑥ 5-D THEATER indicator

Lights when 5-D THEATER is selected.

⑦ MIDNIGHT indicator

Lights when the MIDNIGHT mode is on.

⑧ DNR indicator

Lights when the DIGITAL NR is on.

⑨ LOUDNESS indicator

Lights when loudness is on (refer to "Front Panel", ⑪, LOUDNESS on page 26).

⑩ DIRECT indicator

Lights when direct playback is on (refer to "Front Panel", ⑮, DIRECT on page 26).

⑪ TAPE 2 indicator

Lights when TAPE 2 MONITOR is on.

⑫ Tuner indicators

STEREO : Lights when an FM stereo broadcast is received in the auto stereo mode.

TUNED : Lights when a broadcast is received.

MONO : Lights when the tuner is set to receive FM broadcasts in monaural.

⑬ H.P indicator

Lights when headphones are plugged in.

⑭ Speaker indicators

Light to indicate the current speaker system (refer to "Front Panel", ⑩, SPEAKERS (A/B) on page 26).

SP ► A : Lights when speaker system A is selected.

SP ► B : Lights when speaker system B is selected.

⑮ EON and EON reception indicators

EON indicator lights when the EON mode is on. EON reception indicator □ lights when an RDS station transmitting the EON data service is being received.

⑯ Program format indicators

The following indicators light to show the channels being played back.

L : Left front*1*2, **C** : Center*1, **R** : Right front*1*2,
LS : Left surround*1, **S** : Surround (mono)*2,
RS : Right surround*1

*1: Indicates 5.1ch Dolby Digital playback.

*2: Indicates Dolby surround playback.

⑰ LFE indicator

LFE (Low Frequency Effects) indicator lights to indicate that the program source contains an LFE channel. The indicator to the left of LFE lights during actual playback of the LFE signals (LFE signals are not present in all parts of the sound track).

⑱ Character display

⑲ RDS indicator

Lights when RDS broadcast is received.

⑳ Volume level display

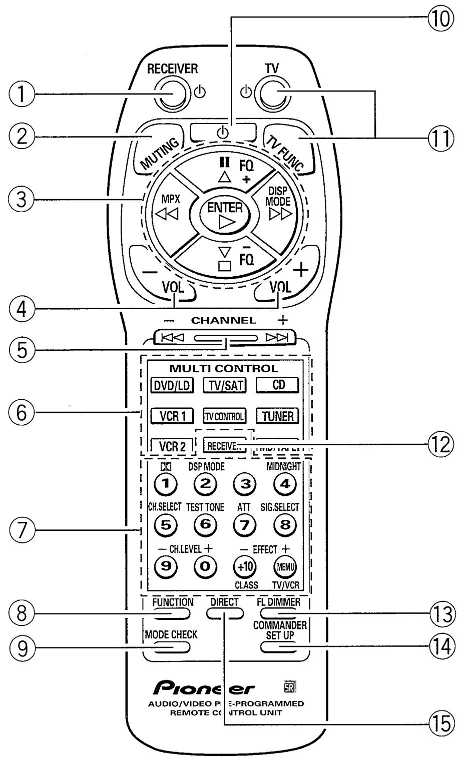
Displays the volume level. Volume level is maintained even when the power is off. ---dB indicates the minimum level, and 0dB indicates the maximum level.

- Depending on the level settings for individual channels, the MAX level can range between –10dB and 0dB.

㉑ RF ATT indicator

Remote Control

These pages describe the buttons on the remote control used to operate the receiver.



① RECEIVER button

Press to switch the receiver on or to put in standby.

② MUTING button

Press to mute the volume. "MUTING" appears in the display. Press again to cancel.

③ [When set to SURROUND]

△, ▽, ◁, ▷, (Select/Adjust) buttons

[When set to other than OPERATIONS]

⏸(Pause), □(Stop), ◁◁(Rewind), ▷▷(Fast Forward), ENTER/▷(Play) buttons

[Tuner Operations]

FQ + (to higher frequencies), FQ – (to lower frequencies), MPX, DISP MODE, ▷ (FM/AM) buttons

MPX: Use to switch the auto stereo/monaural mode for receiving FM broadcasts. When the received broadcast signal is weak, press this button to set the monaural mode.

DISP MODE: Use to switch the RDS data while listening to an FM station. Each press changes the display in the order of RT, PS, PTY, and frequency.

④ VOL (+/–) buttons

Press to adjust the volume. When VOL (+/–) buttons are pressed while muting, muting is canceled.

⑤ CHANNEL (+/–) button

Use to select preset stations when operating the tuner. When the remote is used to control other components, this button may be used to change channels, tracks, or chapters.

⑥ MULTI CONTROL buttons

Use these buttons to select the remote operation mode.

For example, pressing TUNER sets the remote to operate the tuner functions.

⑦ Number buttons

These buttons can perform a variety of different functions depending on the remote operation mode.

- **[RECEIVER operations (press RECEIVER first)]**

DD : Press repeatedly to select the standard mode, the ADVANCED THEATER modes and MPEG mode. (Refer to page 30, 32)
DSP MODE : Press repeatedly to select a DSP sound mode (refer to page 31).
MIDNIGHT : Press to hear surround sound effectively at low volumes (refer to page 35).
CH.SELECT : Use to select a speaker when adjusting speaker levels.
TEST TONE : Press to switch the test tone on or off when listening to a surround mode (refer to page 21).
ATT : Press to attenuate (lower) the level of the input signals and prevent distortion (refer to "Display", ⑤, Overload indicator on page 24).
SIG.SELECT : When the same component uses both analog and digital connections, use to select input signals as digital or analog.
CH.LEVEL (–/+) : Use to adjust individual speaker levels.
EFFECT (+/–) : Use to adjust the DSP mode effect level.

- **[TUNER operations (press TUNER first)]**

Number buttons (0~9) : During preset tuning, use to input the number of the preset station. Use to input the station frequency during direct tuning.
CLASS (+10) : Press repeatedly to switch the preset station classes during preset tuning.
MENU : Press to activate direct tuning.

⑧ FUNCTION button

Press repeatedly to select a source.

⑨ MODE CHECK button

Press to confirm the current remote operation mode and to switch operation modes without changing the source (refer to page 56).

⑩ Power button

Press to turn on or put in standby all connected components other than this unit.

⑪ TV/TV FUNC button

Press TV to turn the TV's power on or put in standby. Press TV FUNC to select the TV for remote control operation.

⑫ RECEIVER button

Press to select the receiver for remote control operation.

⑬ FL DIMMER button

Press to adjust the brightness of the fluorescent display. Four levels of brightness ranging from very dim to very bright can be selected.

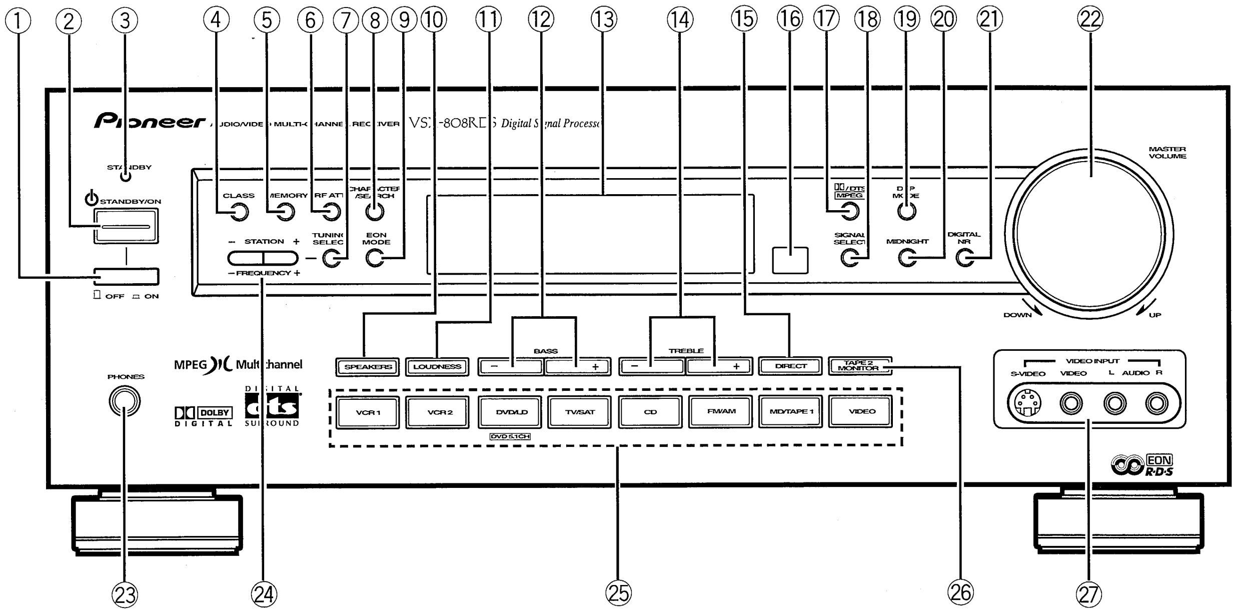
⑭ COMMANDER SET UP button

Use to customize the remote control functions. (Refer to "Setting Up the Remote Control" starting on page 22.)

⑮ DIRECT button

Use to playback original source audio. When DIRECT is ON, Dolby, DSP, LOUDNESS, DIGITAL NR and MIDNIGHT mode are automatically turned OFF.

Front Panel


①
②
③
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⑬
⑭
⑮
⑯
⑰
⑱
⑲
⑳
㉑
㉒
Pioneer
STANDBY
STANDBY/ON
OFF ON
CLASS
MEMORY
RF ATT
CHARACTER/SEARCH
– STATION +
TUNING SELECT
EON MODE
– FREQUENCY +
SIGNAL SELECT
MIDNIGHT
DIGITAL NR
DSP MODE
MPEG
MASTER VOLUME
DOWN
UP
PHONES
MPEG Multichannel
DOLBY DIGITAL
DTS DIGITAL SURROUND
SPEAKERS
LOUDNESS
BASS
TREBLE
DIRECT
TAPE2 MONITOR
VCR1
VCR2
DVD/LD
TV/SAT
CD
FM/AM
MD/TAPE1
VIDEO
DVD 5.1CH
VIDEO INPUT
S-VIDEO
VIDEO
L AUDIO R
EON
RDS
㉓
㉔
㉕
㉖
㉗

① Main power switch (■ OFF, ▬ ON)

② ⏻ STANDBY/ON button

Press to switch the receiver on or put in standby.

③ STANDBY indicator

Lights when the receiver is in standby mode. (Please note that this receiver consumes a small amount of power (2 W) during the standby mode.)

④ CLASS button

Press repeatedly to switch the preset station classes.

(Refer to "Memorizing Frequently Tuned Stations" on page 38 and "Recalling the Memorized Stations" on page 39)

⑤ MEMORY button

Press to memorize a preset station.

(Refer to "Memorizing Frequently Tuned Stations" on page 38)

⑥ RF ATT button

Set this button to on when receiving strong FM signals (nearby stations) to reduce sound distortion. Normally, this button should be set off. This button does not affect AM reception.

⑦ TUNING SELECT button

Press to switch between STATION and FREQUENCY.

⑧ CHARACTER/SEARCH button

Press to select the character input mode, or initiate an RDS PTY search.

(Refer to "Memorizing a broadcast station name" on page 41.)

⑨ EON MODE button

Press to select the EON mode. (Refer to "Setting EON" on page 44.)

⑩ SPEAKERS button

Press repeatedly to switch between A and B speaker systems as follows.

→ A → B → A+B → OFF

⑪ LOUDNESS button

Switches the loudness on or off. Use to raise the level of the bass and treble so they can be more easily heard when listening at low volumes.

⑫ BASS (+/–) button

Press to adjust low frequencies in the range of ±6.

⑬ Display (Refer to page 24)

⑭ TREBLE (+/–) button

Used to adjust high frequencies in the range of ±6.

⑮ DIRECT button

Switches direct playback on or off. Use to bypass the receiver's tone control circuitry or level control for higher fidelity to the program source. When DIRECT is ON, Dolby, DSP, LOUDNESS, DIGITAL NR and MIDNIGHT mode are automatically turned OFF.

⑯ Remote sensor

Point the remote control toward the remote sensor to operate the receiver.

⑰ DD /DTS MPEG button

Press repeatedly to select the standard Dolby/DTS, MPEG mode and the ADVANCED THEATER modes. (Refer to page 30, 32)

⑱ SIGNAL SELECT button

Use to select input signals for the digital components. First press DVD/LD, TV/SAT, MD/TAPE 1, CD or VCR 1 (㉕, Function buttons) to select the component, then press SIGNAL SELECT repeatedly to select one of the following:

ANALOG : Selects the analog (R and L) audio signals.

DIGITAL : Selects the digital audio signals. This receiver automatically detects and displays the format of the signal being input. AC-3 lights when Dolby Digital signals are input, DTS lights when DTS signals are input, and MPEG lights when MPEG signals are input. (AC-3 and DTS decoding is switched automatically.)

- SIGNAL SELECT is fixed in the "ANALOG" position for components not assigned to one of the four digital input jacks.
- Because the audio from a karaoke microphone and LD recorded with analog audio only is not output from the digital output, set SIGNAL SELECT to "ANALOG".
- This receiver can only play back Dolby Digital, PCM (32kHz, 44kHz, and 48kHz), DTS, and MPEG digital signal formats. With digital signal formats other than these, set SIGNAL SELECT to "ANALOG".

⑲ DSP MODE button

Press repeatedly to select a DSP sound mode (HALL 1, HALL 2, JAZZ, DANCE, THEATER 1, or THEATER 2). Use these modes to produce surround sound from standard (two channel) stereo sources.

⑳ MIDNIGHT button

Press to hear effective surround sound at low volume levels. The effect is automatically adjusted according to the volume level.

㉑ DIGITAL NR button

Switches DIGITAL NR on or off. Use to reduce noise in digital audio sources (refer to page 34.)

㉒ MASTER VOLUME

After turning on the desired component, rotate to adjust the volume.

㉓ PHONES jack

Connect headphones for private listening (the speakers turn off automatically).

㉔ STATION/FREQUENCY (+/–) button

STATION: Press to select the preset channel.

FREQUENCY: Press to select the frequency.

㉕ Function buttons

Selects the function. Each press switches the DVD/LD input between DVD/LD and DVD 5.1 channel.

㉖ TAPE 2 MONITOR button

Switches the TAPE 2 monitor on or off (refer to page 47).

㉗ VIDEO INPUT jacks

Connect a video camera, video game system, etc. to the VIDEO INPUT jacks (refer to page 10).

Sound Modes

This receiver incorporates two surround modes for enjoyment of a variety of program sources.

Surround modes

DD (Dolby) mode

Use this mode when playing Dolby Digital or Dolby Pro Logic software. Decoding switches automatically according to the input signal, so all you have to do is enjoy!
You can identify Dolby Digital software by the DD DOLBY DIGITAL or DD DOLBY SURROUND AC-3 DIGITAL marks. Most Dolby Pro Logic software is marked DD DOLBY SURROUND, but unmarked software may also incorporate Dolby Pro Logic.
For more information about Dolby formats, refer to page 57.

MPEG mode

Use this mode to enjoy playback of software recorded in MPEG audio.

ADVANCED THEATER modes

MUSICAL

Simulates the acoustic environment of a large concert hall and is suitable for music or musical sources marked DD DOLBY DIGITAL (DD DOLBY SURROUND AC-3 DIGITAL) or DIGITAL dts SURROUND.

DRAMA

Simulates the relaxed environment of a classic medium size movie theater, and is suitable for watching dramas on sources marked DD DOLBY DIGITAL (DD DOLBY SURROUND AC-3 DIGITAL) or DIGITAL dts SURROUND.

ACTION

Simulates the acoustic environment of a modern large movie theater. You can enjoy the power and dynamics of motion picture audio which is suitable for action movies on sources marked DD DOLBY DIGITAL (DD DOLBY SURROUND AC-3 DIGITAL) or DIGITAL dts SURROUND.

5-D THEATER

Simulates the clear and dynamic five channel sound of Dolby Digital audio on Dolby Pro Logic software marked DD DOLBY SURROUND. Also, when used with DTS or Dolby Digital sources, you can experience a sense of travelling with the soundtrack.

DSP modes

The DSP (Digital Signal Processing) modes allow you to transform your living room into a variety of different sonic environments when playing standard (two-channel) stereo sources, Dolby Pro Logic sources, and Dolby Digital sources.

HALL 1

Simulates the acoustic environment of a large concert hall of wooden construction. Complex delay of reflected sounds coupled with reverberation effects create a dynamic and beautiful sound characteristic of an orchestra performing in a concert hall, making it suitable for classical music

HALL 2

Simulates the acoustic environment of a concert hall with stone walls. The rich reverberations and natural fullness of the sound create the auditory impression of being in a concert hall, making it suitable for classical music.

JAZZ

Simulates the acoustic environment of a jazz club. Less delay on the reflected sounds emphasizes the sensation of hearing a live band.

DANCE

Simulates the acoustic environment and strong bass sound of a nightclub with a square dance floor. A short delay on the reflected sounds emulates the raw power of the dance music.

THEATER 1

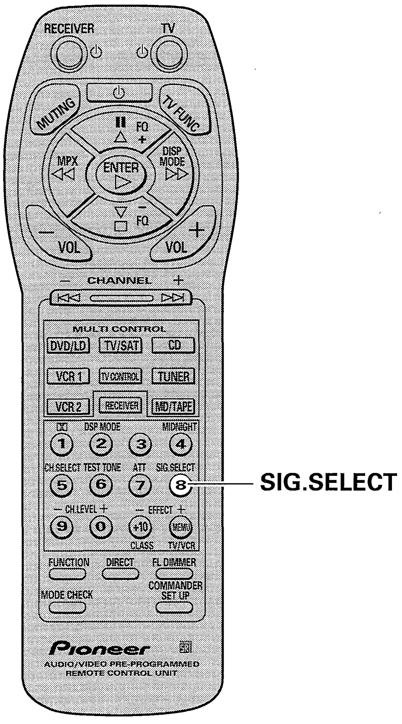
Adjusts the delay of the reflected sound to simulate the acoustic environment of a medium sized movie theater.

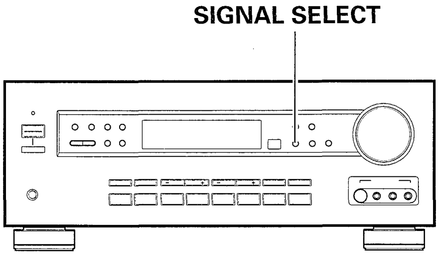
THEATER 2

Simulates the acoustic environment of a theater while maintaining proper localization of each channel.

Switching ANALOG/DIGITAL Signal Input

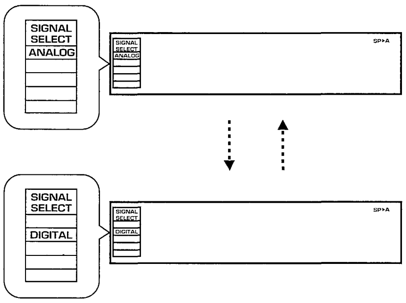
The input of the component set in the digital input setting (Refer to page 20, 21) can be switched to an analog or digital input signal by pressing the SIGNAL SELECT button.


SIG.SELECT
RECEIVER
TV
MUTING
TV FUNC
MPX
ENTER
DISP MODE
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH.SELECT
TEST TONE
ATT
SIG.SELECT
CH.LEVEL
EFFECT
CLASS
TV/VCR
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
COMMANDER SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT

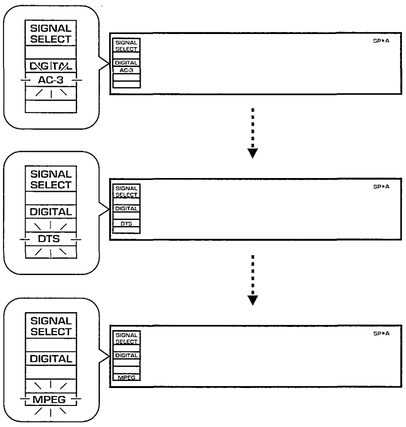

SIGNAL SELECT

1 **Press SIG. SELECT on the remote control or SIGNAL SELECT on the front panel to select the input signal corresponding to the source component.**

Each press switches between ANALOG and DIGITAL signal selection.


SIGNAL SELECT
ANALOG
SIGNAL SELECT
DIGITAL

2 While SIGNAL SELECT is set to DIGITAL, AC-3 lights when a Dolby Digital signal is input, DTS lights when a DTS signal is input, or MPEG lights when a MPEG signal is input.


SIGNAL SELECT
DIGITAL
AC-3
DTS
MPEG

When a Dolby Digital signal is input.

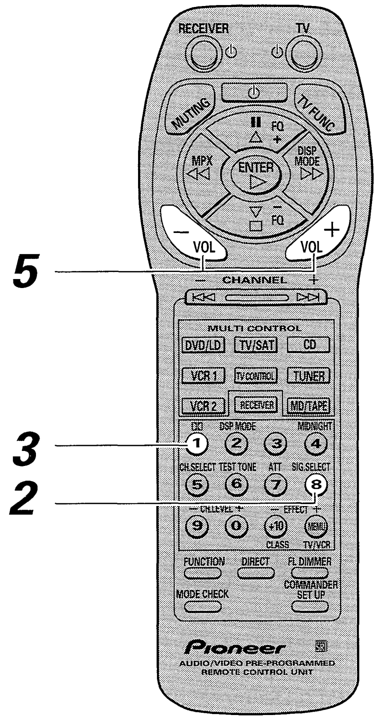
When a DTS signal is input.

When a MPEG signal is input.

memo

- SIGNAL SELECT is fixed in the "ANALOG" position for components not assigned to one of the four digital input jacks.
- Because the audio from a karaoke microphone and LD recorded with analog audio only is not output from the digital output, set SIGNAL SELECT to "ANALOG".
- This receiver can only play back Dolby Digital, PCM (32kHz, 44kHz, and 48kHz), DTS, or MPEG digital signal formats. With digital signal formats other than these, set SIGNAL SELECT to "ANALOG".
- When an LD or CD player compatible with DTS is played back with SIGNAL SELECT set in "ANALOG", digital noise is output caused by playing back the DTS directly (no decoding). To prevent noise, you need to make digital connections (Refer to pages 20, 21) and set SIGNAL SELECT to "DIGITAL".
- Some DVD players don't output DTS signals. For more details, refer to the instruction manual supplied with your DVD player.

Playing Sources with Dolby Digital, DTS Sound, or MPEG Audio


5
3
2
RECEIVER
TV
MUTING
TV FUNC
MPX
ENTER
DISP MODE
FQ
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH.SELECT
TEST TONE
ATT
SIG.SELECT
CH.LEVEL
EFFECT
CLASS
TV/VCR
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
COMMANDER SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT

1 **Follow steps 1 to 3 of the playback procedure. (Refer to "Playback" on page 45.)**

① Turn on the power of the playback component.
② Press RECEIVER to turn on the receiver.
③ Press FUNCTION to select the source component you want to play.

2 **Press SIG.SELECT on the remote control or SIGNAL SELECT on the front panel to select DIGITAL.**

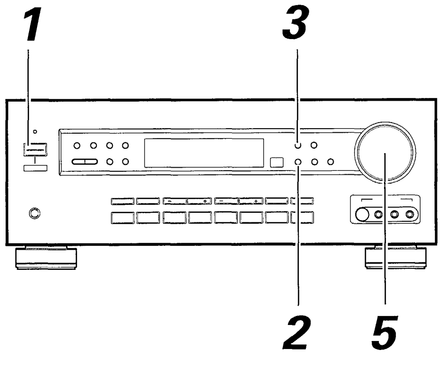
(Refer to "Switching ANALOG/DIGITAL signal input" on the previous page.)

3 **Press ᗡᗞ to switch the Dolby/DTS/MPEG mode on.**

Each press changes the Dolby/DTS/MPEG mode.
(Refer to "Switching the Dolby/DTS/MPEG mode" on page 32.)

4 **Start playback of the component you selected in step 1.**

5 **Press VOL (+/–) to adjust the volume level.**



memo

- When an LD or CD player compatible with DTS is played back with SIGNAL SELECT set in "ANALOG", digital noise is output caused by playing back the DTS directly (no decoding). To prevent noise, you need to make digital connections (Refer to pages 20, 21) and set SIGNAL SELECT to "DIGITAL".
- When MPEG mode is already selected using ᗡᗞ, "ANALOG" cannot be set in SIGNAL SELECT.

memo

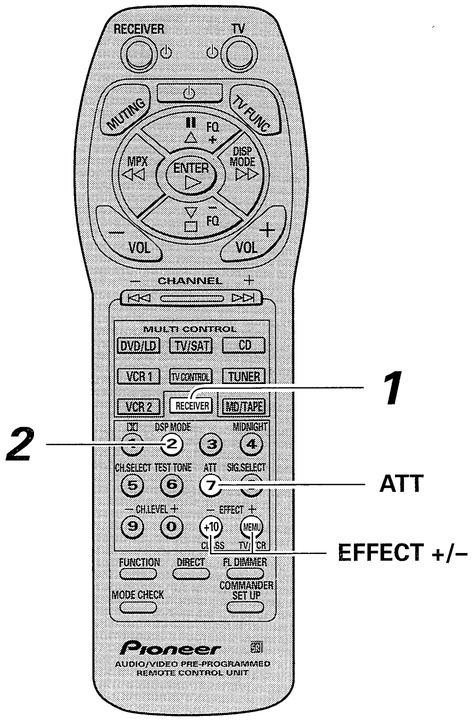
When playing LD recorded in Dolby Digital

When connecting a DVD/LD player or LD player using the AC-3 RF output, a commercially available RF demodulator (RFD-1) is required. The RF demodulator changes the RF signal to a digital signal which is then processed by the receiver at the digital input jacks. For more details, refer to the instruction manual supplied with the RFD-1.
Refer to pages 57, 58 for explanations of Dolby Digital, Dolby Pro Logic, DTS, and MPEG.

Selecting a Sound Mode

To ensure the best possible surround sound, be sure to complete the set up procedures described in "Setting Up for Surround Sound" (starting on page 16) before using the sound modes. This is particularly important when using the DD (Dolby) sound mode. When using the sound modes, SPEAKERS A are used. If SPEAKERS B are selected and a sound mode is turned on, selection automatically switches to SPEAKERS A only.

Surrround operation


RECEIVER
TV
MUTING
TV/FUNC
FQ
DISP MODE
MPX
ENTER
FQ
VOL
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH.SELECT
TEST TONE
ATT
SIG.SELECT
CH.LEVEL
EFFECT
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
COMMANDER SET UP
Pioneer
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1
2
ATT
EFFECT +/–

1 Press RECEIVER.

This sets the remote to select the sound mode.

(You can skip this step when using the controls on the receiver.)

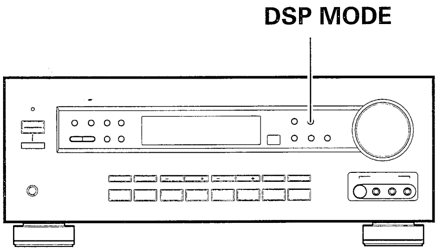
2 Press DSP MODE to select the sound mode.

Each press changes the DSP mode as follows:

→HALL 1 → HALL 2 → JAZZ → DANCE
SFC OFF← THEATER 2 ← THEATER 1 ←

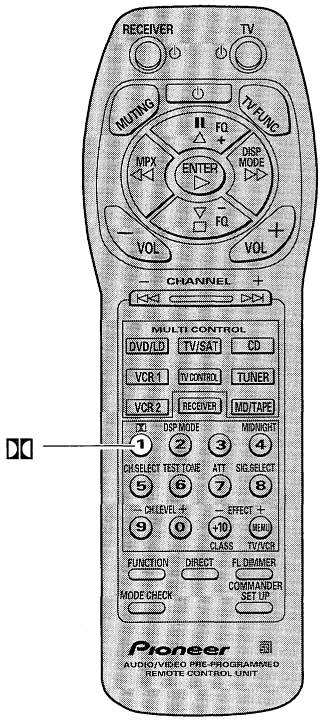
memo

- The amount of effect of each DSP mode can be adjusted in the range of 10 to 90 (the default setting value is 70) by pressing EFFECT +/–.



Switching the Dolby/DTS/MPEG mode (ADVANCED THEATER mode)

Switch the Dolby/DTS/MPEG mode by pressing the DD button. When Dolby/DTS/MPEG mode is ON, Dolby Pro Logic, Dolby Digital, DTS, and MPEG signal processing is performed automatically corresponding to the input signal.


DD
RECEIVER
TV
MUTING
TV FUNC
FQ
MPX
ENTER
DISP MODE
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH.SELECT
TEST TONE
ATT
SIG.SELECT
CH.LEVEL
EFFECT
CLASS
TV/VCR
FUNCTION
DIRECT
FL DIMMER
COMMANDER SET UP
MODE CHECK
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT

Switch the Dolby/DTS/MPEG mode on and off by pressing DD on the remote control or DD/DTS MPEG on the front panel.

Each press changes the display as follows.

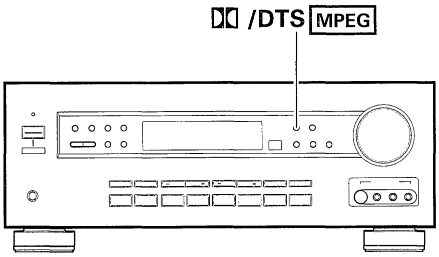
→ STANDARD → MUSICAL → DRAMA

OFF ← MPEG ← 5-D THEATER ← ACTION ←

Refer to page 28 for more details about each surround effect.

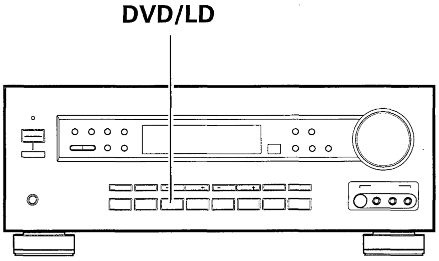
memo

- The effects of Dolby/DTS mode can be adjusted in the range of 10 to 90 by pressing EFFECT +/–. (The default setting is 70). Also, the effect level can be set in each Dolby/DTS mode by pressing the EFFECT(+/–) button. STANDARD, 5-D THEATER and MPEG modes cannot be changed.
- If the ADVANCED THEATER mode (MUSICAL, DRAMA, ACTION) is ON when the digital input is selected, the overload indicator may flicker. If this bothers you, set the ADVANCED THEATER mode to STANDARD.



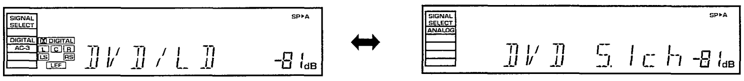
DVD 5.1ch input playback

Connect a component with 5.1 channel output to enjoy the surround sound created by 5.1 channel playback.



Press DVD/LD on the unit.

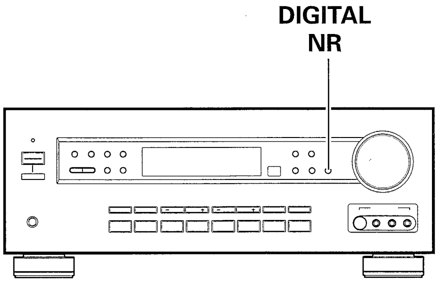
Each press switches the input: DVD/LD ⟷ DVD 5.1ch


SIGNAL SELECT
DIGITAL
AC-3
SP▸A
DVD/LD
-81dB
↔
SIGNAL SELECT
ANALOG
SP▸A
DVD 5.1ch
-81dB

- When DVD 5.1ch input is selected, Dolby mode, DSP mode, MPEG mode, SIGNAL SELECT, ATT, DIRECT, TONE, MIDNIGHT mode, DIGITAL NR and speakers B cannot be operated.
- When DVD 5.1ch input is selected, only the volume level and channel levels can be set.

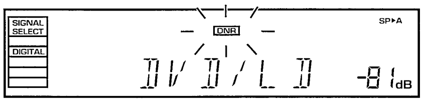
Reducing noise during playback (DIGITAL NR function)

When DIGITAL NR is on, extraneous noise during playback can be reduced.



Press DIGITAL NR on the front panel.

Each press switches DNR on or off.



memo

- In cases described below, DIGITAL NR cannot be used.

① Dolby/DTS/MPEG mode is ON.
② DSP mode is ON.
③ DVD 5.1ch input is selected.
④ Dolby Digital, DTS, or MPEG signals are being input.

* When DIGITAL NR is on and Dolby Digital, DTS, or MPEG signals are input, DIGITAL NR is automatically switched off.

- In cases described below, noises may not be reduced even if DIGITAL NR is on.
  - · Sudden noise
  - · Extremely loud noise
  - · Signals that do not contain many high frequencies

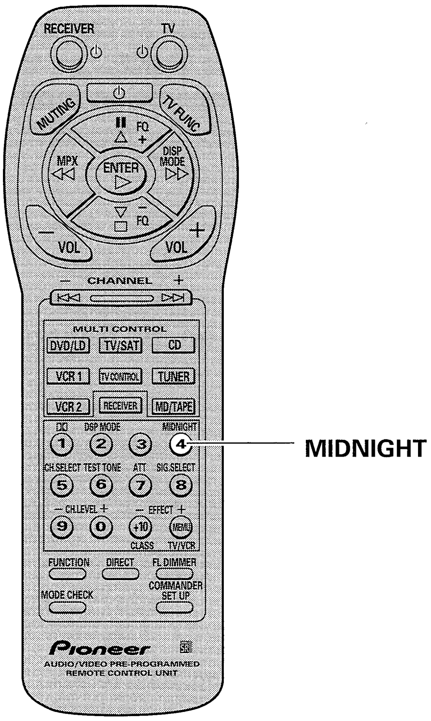
- For each source, DIGITAL NR is effective at and above levels shown below.

· Cassette tape	20 dB
· Video tape	15 dB
· AM tuner	10 to 15 dB
· FM tuner	15 to 16 dB

* Depending on the condition of the source, there may not be a noticeable improvement in the quality of the sound.

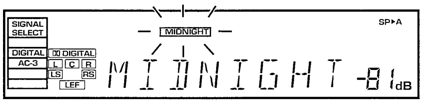
Listening in MIDNIGHT Listening Mode

When the volume is low, surround effects tend to become less than satisfactory. Turn the MIDNIGHT listening mode on to enjoy the effects of quality surround sound even at low volumes. This mode allows you to hear effective surround sound of movies at low volume levels.


RECEIVER
TV
MUTING
TV FUNC
MPX
ENTER
DISP MODE
FQ
VOL
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH.SELECT
TEST TONE
ATT
SIG.SELECT
CH.LEVEL
EFFECT
CLASS
TV/VCR
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
COMMANDER SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT
MIDNIGHT

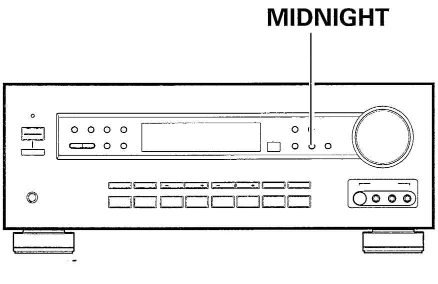
Press MIDNIGHT.

Each press switches MIDNIGHT listening mode on or off.


SIGNAL SELECT
DIGITAL
AC-3
DIGITAL
L
C
R
LS
RS
LFE
MIDNIGHT
SP▸A
MIDNIGHT
-81
dB

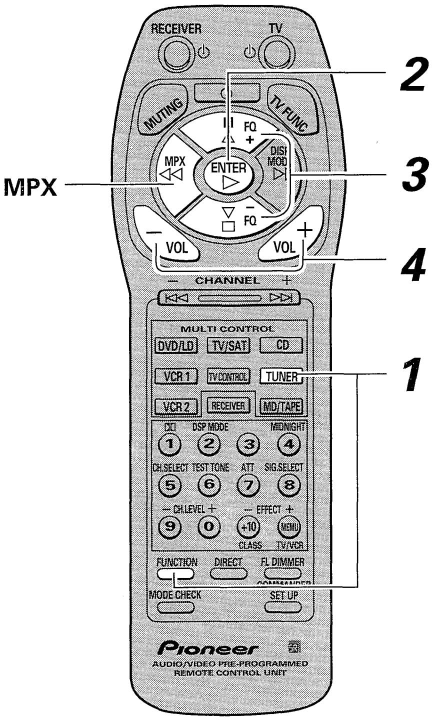
memo

The effect automatically adjusts according to the volume level.



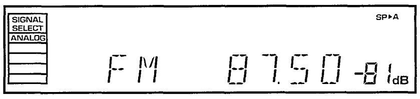
Automatic and Manual Tuning

The following steps show you how to tune in FM and AM radio broadcasts using the automatic (search) and manual (step) tuning functions. If you already know the exact frequency of the station you want, see "Direct Tuning" on the following page.


RECEIVER
TV
MPX
ENTER
FQ
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH.SELECT
TEST TONE
ATT
SIG.SELECT
CH.LEVEL
EFFECT
CLASS
TV/VCR
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT
2
3
4
1

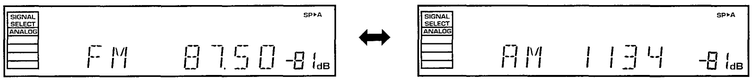
1 **Press FUNCTION repeatedly on the remote or FM/AM on the front panel to select the tuner. Press TUNER on the remote to set the remote to the tuner operation mode.**

The station you were previously tuned to is received automatically.


SIGNAL SELECT ANALOG
SP▸A
FM 87.50 -81dB

2 **Press ENTER on the remote or FM/AM on the front panel to select the band (FM or AM).**

Each press switches the band: FM ↔ AM


SIGNAL SELECT ANALOG
SP▸A
FM 87.50 -81dB
AM 1134 -81dB

3 **Tune in the station.**

For Automatic Tuning

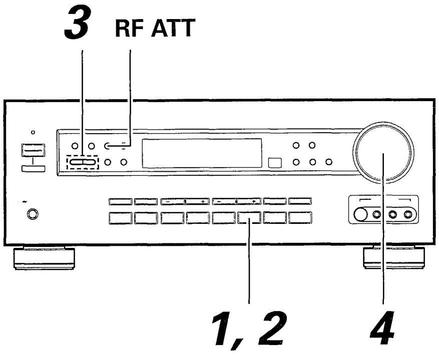
Press and hold FQ +/– (△/▽) for about one second, then release.
The tuner starts searching the selected band and stops automatically at the first station it locates. Repeat to locate other stations.

For Manual Tuning

- To change frequencies one step at a time, press FQ +/– (△/▽) repeatedly.
- To change frequencies quickly, hold down FQ +/– (△/▽) and release when you reach the frequency you want.

When using the front panel

Press FREQUENCY (+/–) until the frequency you want appears in the display.



4 **Adjust the volume.**

MPX mode

If the TUNED or STEREO indicators do not light when tuning an FM station, because the station is too far away or the broadcast signal is weak, press MPX on the remote control to switch to monaural (MONO) reception. This should improve reception enough for you to enjoy the broadcast.

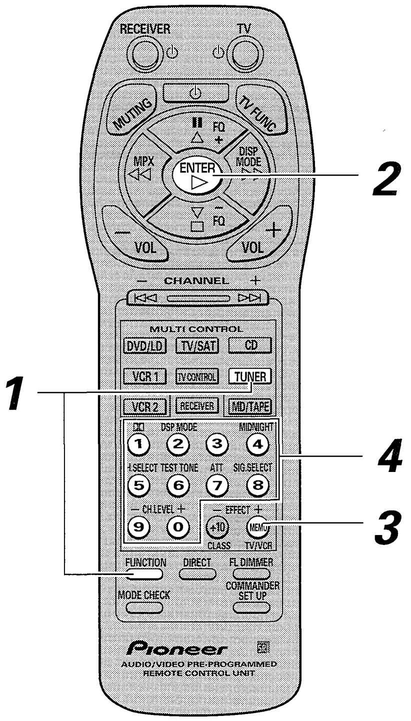
RF ATT mode

Set this button to on to reduce sound distortion when receiving strong FM signals from nearby stations.

Normally, this button should be set to off. This button does not affect AM reception.

Direct Tuning

The following steps show you how to tune directly to a specific frequency using the remote control.


RECEIVER
TV
MUTING
TV/FUNC
FQ
MPX
ENTER
DISP MODE
FQ
VOL
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
SELECT
TEST TONE
ATT
SIG.SELECT
CH.LEVEL
EFFECT
+10
MENU
CLASS
TV/VCR
FUNCTION
DIRECT
FL DIMMER
COMMANDER SET UP
MODE CHECK
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT
1
2
3
4

1 Press FUNCTION repeatedly on the remote or FM/AM on the front panel to select the tuner. Press TUNER on the remote to set the remote to the tuner operation mode.

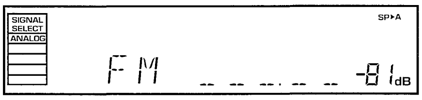
The station you were previously tuned to is received automatically.

2 Press ENTER to select the band (FM or AM).

Each press switches the band: FM ⟷ AM

3 Press MENU to activate the direct tuning mode.

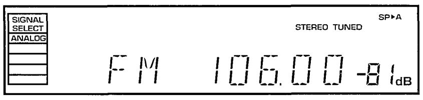
The cursor blinks in the display on the front panel.


SIGNAL SELECT
ANALOG
SP▸A
FM
-- -- ---.-- --
-81 dB

4 Use the number buttons to enter the frequency of the station you want.

Example:

To tune station 106.00 (FM), press: ① → ⓪ → ⑥ → ⓪ → ⓪


SIGNAL SELECT
ANALOG
SP▸A
STEREO TUNED
FM
106.00
-81 dB

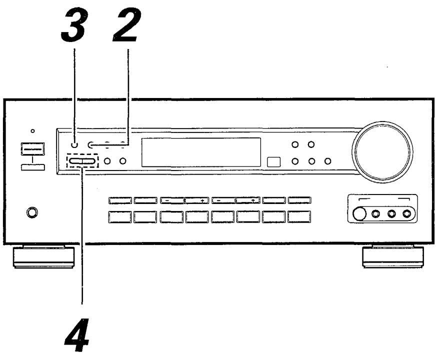
To cancel before inputting the frequency

Press MENU, and enter the frequency again.

Memorizing Frequently Tuned Stations

The following steps show you how to memorize up to 30 radio stations in 3 classes (each holding 10 channels). When memorizing FM frequencies, the receiver also memorizes the MPX mode (STEREO or MONO for FM only) and RF ATT mode (FM only).

Using the front panel

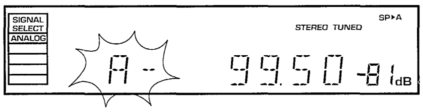


1 Tune in the station you want to have memorized.

See "Automatic and Manual Tuning" or "Direct Tuning" on pages 36, 37.

2 Press MEMORY to activate the memory function.

"A--" blinks in the display.

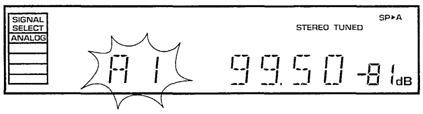

SIGNAL
SELECT
ANALOG
STEREO TUNED
SP▸A
A --
99.50
-81
dB

3 Press CLASS repeatedly to select a class.

Each press switches the display:

→ CLASS A → CLASS B → CLASS C ⤶

4 Press STATION (+/–) to select a channel (1~10) within the respective class.

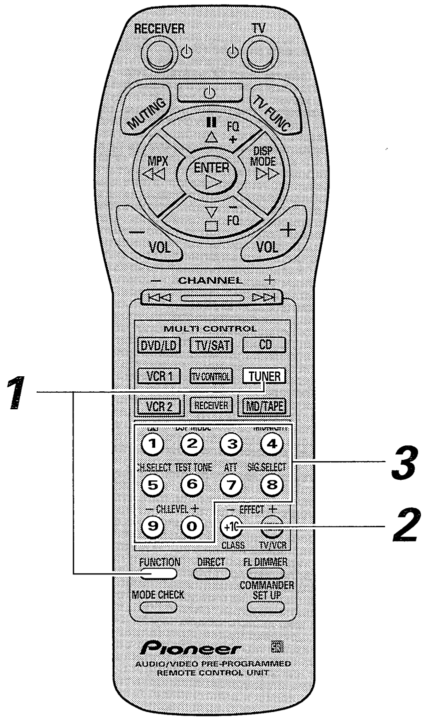

SIGNAL
SELECT
ANALOG
STEREO TUNED
SP▸A
A 1
99.50
-81
dB

The station is memorized automatically after 5 seconds.

Repeat steps 1 through 4 to memorize up to 30 stations.

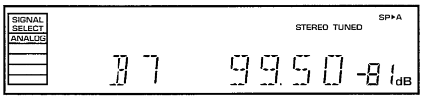
Recalling the Memorized Stations

Using the remote control


RECEIVER
TV
MUTING
TV FUNC
FQ
DISP MODE
MPX
ENTER
FQ
VOL
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
1
2
3
4
CH.SELECT
TEST TONE
ATT
SIG.SELECT
5
6
7
8
CH.LEVEL
EFFECT
9
0
+10
CLASS
TV/VCR
FUNCTION
DIRECT
FL DIMMER
COMMANDER SET UP
MODE CHECK
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT
1
3
2

1 Press FUNCTION repeatedly on the remote or FM/AM on the front panel to select the tuner. Press TUNER on the remote to set the remote to the tuner operation mode.

The station you were previously tuned to is received automatically.


SIGNAL SELECT
ANALOG
STEREO TUNED
SP▸A
B 7
99.50
-81
dB

2 Press CLASS repeatedly to select a class.

Each press switches the display:

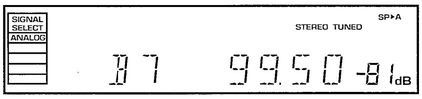
→ CLASS A → CLASS B → CLASS C ─┐

3 Use the number buttons to select the channel you want.

To select channel 7, press ⑦.

To select channel 10, press ⓪.

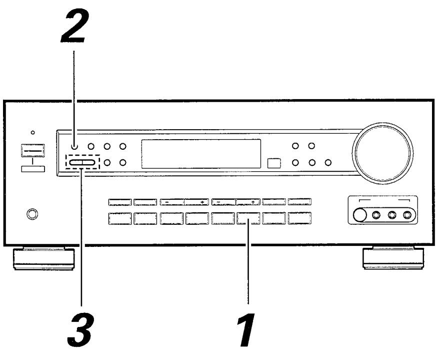
For example : If 99.50 MHz (FM) was memorized in class B at channel 7.


SIGNAL SELECT
ANALOG
STEREO TUNED
SP▸A
B 7
99.50
-81
dB

To skip through each channel in order

Press CHANNEL +/– repeatedly.

Using the front panel

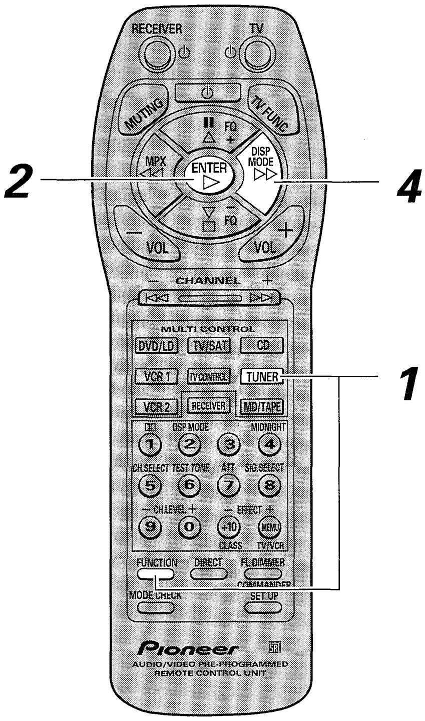


1. **Press FM/AM.**
2. **Press CLASS repeatedly to select a class.**
3. **Press STATION +/– to select the channel you want.**

RDS (Radio Data System) Broadcast Reception

Refer to page 59 for more information about RDS (Radio Data System) operation.

Displaying the RDS data (remote control unit only)


2
4
1
RECEIVER
TV
MUTING
TV FUNC
MPX
ENTER
DISP MODE
FQ
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT

1 Press FUNCTION repeatedly on the remote or FM/AM on the front panel to select the tuner. Press TUNER on the remote to set the remote to the tuner operation mode.

The station you were previously tuned to is received automatically.

2 Press ENTER to select FM.

3 Tune in a station.

Refer to "Automatic and Manual Tuning" or "Direct Tuning on pages 36, 37.

* If the received broadcast transmits RDS data, the RDS indicator lights, and the data of the display mode appears in the display.

4 Press DISP MODE to select a mode.

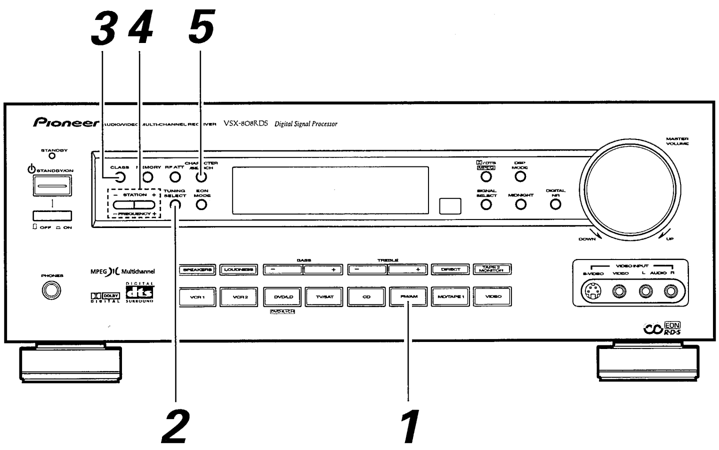
Each press changes the display as follows.

→RT → PS → PTY → Frequency

memo

- In RT mode, should any noise be picked up while displaying the RT scroll, some characters may temporarily be incorrectly displayed.
- In RT mode, when no RT data is transmitted from a broadcast station, "NO RADIO TEXT DATA" is displayed once and after that the PS data is displayed.
- In PTY mode, there are cases where "NO TYPE" is displayed. In this case, it will automatically switch to PS mode after a few seconds.
- When reception conditions are strong, and RDS data is incorrectly displayed, press RF ATT.

Memorizing a broadcast station name (Manual Station Name Memory) (Main unit only)


3
4
5
Pioneer
VSX-808RDS Digital Signal Processor
2
1

memo

- You can input a name of up to four characters for each preset broadcast station (refer to pages 25 and 26).
- The memorized name takes priority over PS data.

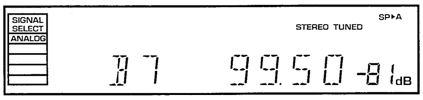
1 Press FM/AM to set the tuner function.

2 Press TUNING SELECT to select the STATION mode.

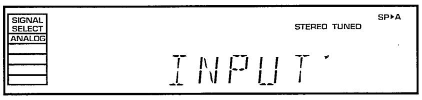
3 Press CLASS repeatedly to select the class.

→ CLASS A → CLASS B → CLASS C

4 Press STATION (+/–) to select the preset channel.


SIGNAL SELECT
ANALOG
SP▸A
STEREO TUNED
B 7
99.50
-81 dB

5 Press CHARACTER/SEARCH to select the character input mode.


SIGNAL SELECT
ANALOG
SP▸A
STEREO TUNED
INPUT

* When it is set to OFF, frequency being receieved will be displayed.

When FM is selected:

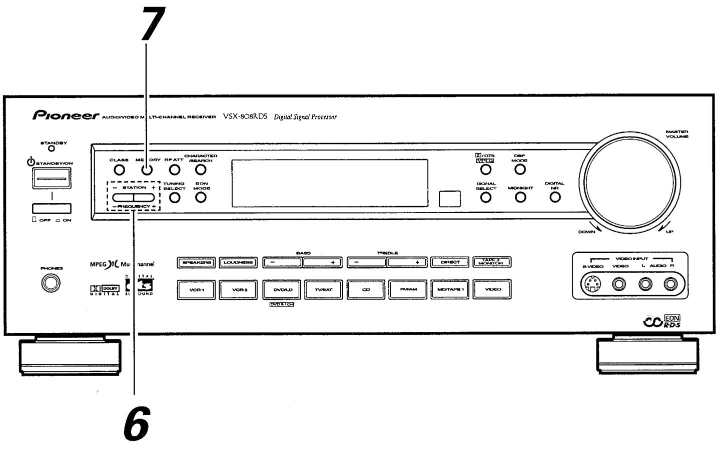
→ SEARCH → OFF

INPUT (Character input mode) ←

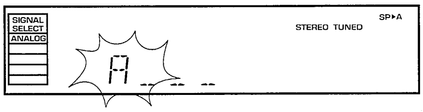
When AM is selected:

→ OFF

INPUT (Character input mode) ←



6 Press STATION (+/–) to enter the broadcast station name.



Refer to "Character display used for station name input" on page 61.

7 Press MEMORY to input the first of four characters. After four characters have been entered, the character input mode is exited.

Repeat steps 3 to 5 to memorize up to 30 broadcast station names.

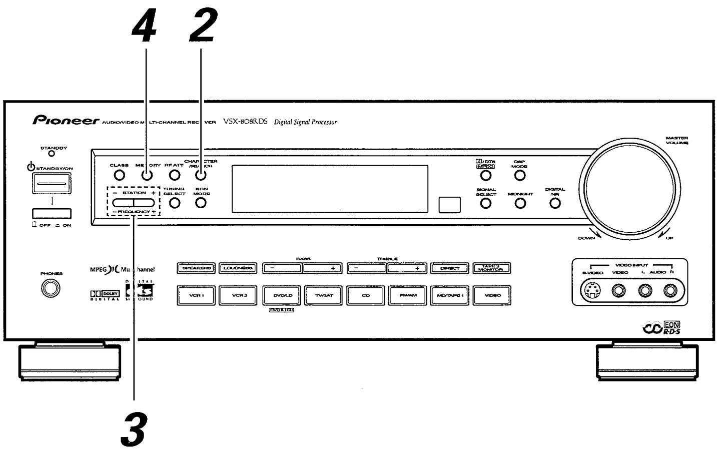
To erase and change the memorized station name

Perform the procedures of "Memorizing a broadcast station name" and enter four spaces to erase the memorized station name.
When you want to change a memorized station name, input the new station name using the same procedure.

memo

For greater convenience, record memorized station names in the STATION "memo" on page 61.

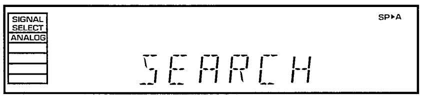
Searching for a program by program type (PTY) (Main unit only)


4
2
3
Pioneer
VSX-808RDS
Digital Signal Processor

1 Tune in an FM station.

Refer to "Automatic and Manual Tuning" or "Direct Tuning" on pages 36 and 37.

2 Press CHARACTER/SEARCH to select the PTY search mode.


SIGNAL
SELECT
ANALOG
SP▸A
SEARCH

* When it is set to OFF, the frequency being received is displayed.

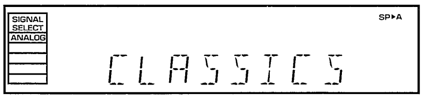
When STATION mode is selected:

→ OFF → INPUT → SEARCH (PTY search mode) →

When FREQUENCY mode is selected:

→ OFF → SEARCH (PTY search mode) →

3 Press STATION (+/–) to select the desired program type.


SIGNAL
SELECT
ANALOG
SP▸A
CLASSICS

* Refer to pages 60 and 61 for program types.

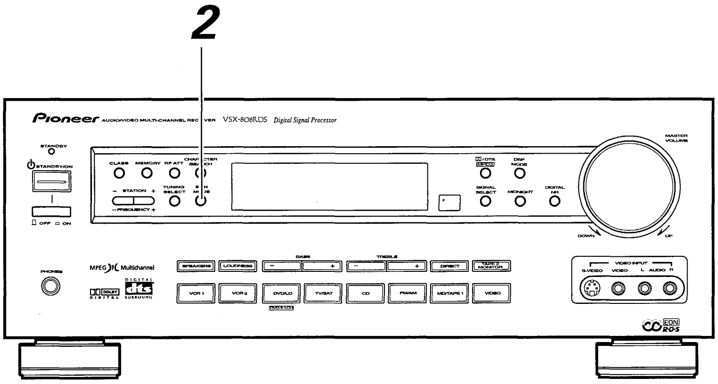
4 Press MEMORY to search for the selected program type.

Searches the preset stations for a station broadcasting the selected program type. Press MEMORY within 5 seconds after a program has been found. If MEMORY is not pressed, the function will begin to search for another station automatically.

memo

This function searches RDS stations preset in the 30ch memory. If this function is set when no stations have been preset, "NO PTY" will be displayed. If the desired PTY could not be found amongst the RDS stations in memory, the same display appears.

Setting EON (Main unit only)

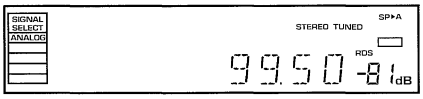


Refer to page 59 for more information about EON.

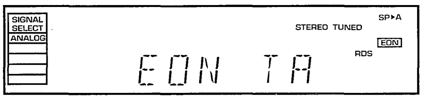
1 Tune in an EON FM station.

Refer to "Automatic and Manual Tuning" or "Direct Tuning" on pages 36 and 37.

- Even if the EON mode is off, when an FM station broadcasting a news or traffic information program, the EON reception indicator ▭ lights in the display to inform you that the currently tuned station carries the EON data service.



2 Press EON MODE to select the mode.



Each press changes the display as follows.

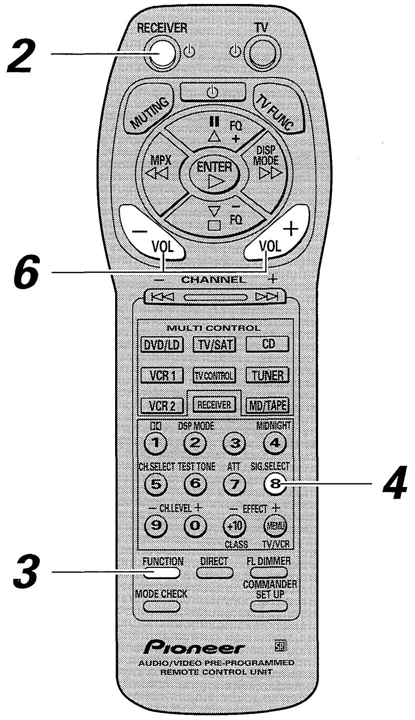
→ EON TA → EON NEWS → OFF →

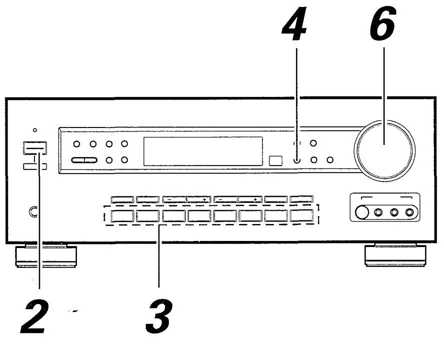
* When EON is set to OFF, the frequency being received or a memorized station name will be displayed.

memo

- The EON mode is cancelled if you switch to AM reception while setting EON. It starts once again when you return to FM reception.
- Simultaneous requests for Traffic Information (TA) and News programs is not possible.
- You cannot operate the MEMORY and CHARACTER/SEARCH buttons while the EON indicator lights.
- Functions other than TUNER cannot be changed while the EON indicator flashes (while receiving on EON broadcast).
  If you want to change to a function other than TUNER, press the EON MODE button and turn the EON mode off.
- When you are playing back TAPE 2 while setting EON, TAPE 2 will be canceled by reception of EON. The function returns once more to TAPE 2 after EON reception is finished.
- When EON in turned on and a function other than the tuner is set, the function will switch to the FM station automatically when Traffic Information or News begins. When the program ends, the original function will be restored.
- When the EON mode is on, the EON indicator lights. During reception of the selected news or traffic information broadcast, the EON indicator blinks.

Playback

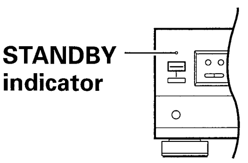




1 **Turn on the power of the playback component.**

2 **Press RECEIVER to turn on the receiver.**

Be sure that the standby indicator turns off on the front panel.



3 **Press FUNCTION to select the source you want to playback.**

The source you want to playback is displayed in the following order:

TUNER → MD/TAPE 1 → VIDEO → VCR 1
CD ← TV/SAT ← DVD/LD ← VCR 2

4 **Press SIG. SELECT on the remote control or SIGNAL SELECT on the front panel to select the input signal corresponding to the source component.**

(Refer to "Switching ANALOG/DIGITAL signal input" on page 29.)

5 **Start playback of the component you selected in step 1.**

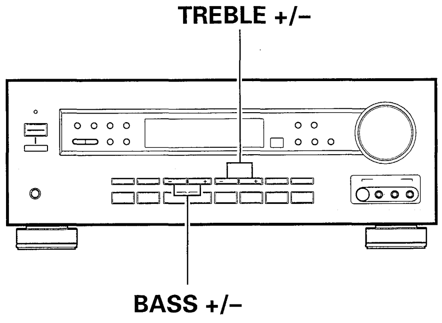
6 **Press VOL (+/–) to adjust the volume level in the range of --- dB (MIN) to 0 dB (MAX).**

memo

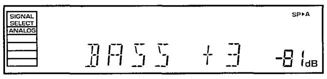
- Depending on the channel level setting, the MAX volume level may differ 0 to –10 dB from the level displayed.
- When this receiver is not going to be used for a long time, it is recommended that you turn off the main power.

Adjusting bass and treble (tone control)

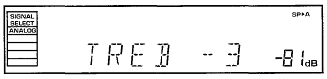
Use BASS (+/–) or TREBLE (+/–) to adjust the low and high frequencies.


TREBLE +/–
BASS +/–

Press BASS (+/–) to adjust the low frequencies.


SIGNAL SELECT ANALOG
SP▸A
BASS +3
-81dB

Press TREBLE (+/–) to adjust the high frequencies.

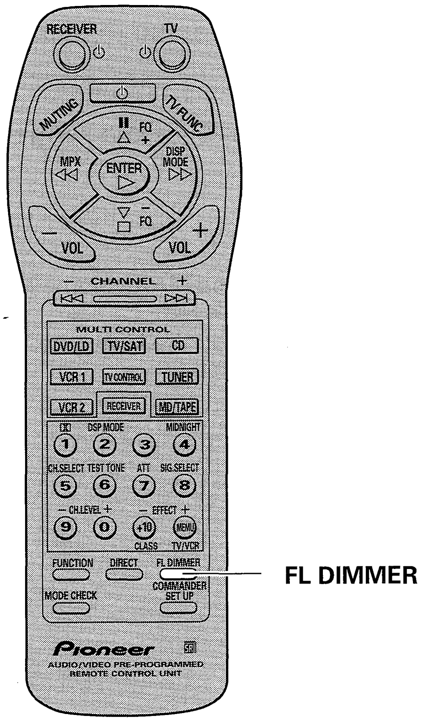

SIGNAL SELECT ANALOG
SP▸A
TREB -3
-81dB

memo

- The tone control can be adjusted in a range of ±6.
- Pressing + and – simultaneously restores the setting to 0.
- In cases described below, the tone control cannot be adjusted.
  ① Dolby/DTS/MPEG mode is ON.
  ② DSP mode is ON.
  ③ DVD 5.1ch input is selected.
  ④ MPEG mode is ON.

Adjusting the brightness of the display

Use FL DIMMER to adjust the brightness of the fluorescent display.


RECEIVER
TV
MUTING
TV FUNC
FQ
MPX
ENTER
DISP MODE
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH.SELECT
TEST TONE
ATT
SIG.SELECT
CH.LEVEL
EFFECT
CLASS
TV/VCR
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
COMMANDER SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT
FL DIMMER

Press FL DIMMER.

Four levels of brightness ranging from very dim to very bright can be selected. Each press changes the brightness of the display. When rotating through the options, the default brightness can also be selected.

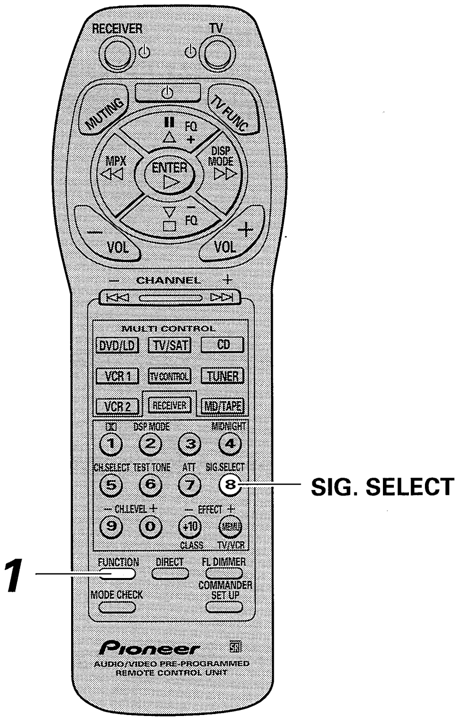
memo

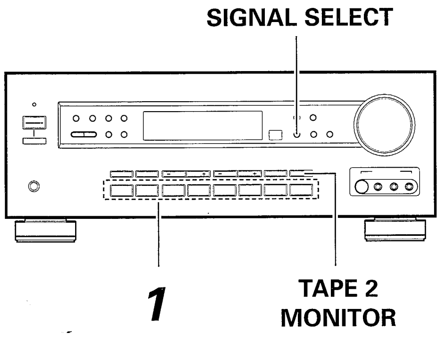
In standby, pressing STANDBY/ON while holding down DD /DTS MPEG returns the display to the default brightness.

Recording from Audio Components

The following operations show you how to record audio to the cassette, DAT, or MD deck connected to the MD/TAPE 1 or TAPE 2 MONITOR jacks.

memo The receiver's volume, tone (BASS, TREBLE, and LOUDNESS), and surround effects have no effect on the recorded signal.


RECEIVER
TV
MUTING
TV FUNC
FQ
MPX
ENTER
DISP MODE
FQ
VOL
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH.SELECT
TEST TONE
ATT
SIG.SELECT
CH.LEVEL
EFFECT
CLASS
TV/VCR
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
COMMANDER SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT
SIG. SELECT
1


SIGNAL SELECT
1
TAPE 2 MONITOR

1 Select the component you want to record.

Press SIG. SELECT on the remote or SIGNAL SELECT on the front panel to select "ANALOG" when making analog recordings, or "DIGITAL" when making digital recordings. (Refer to "Switching ANALOG/DIGITAL signal input" on page 29.)

2 Prepare the program source.

(Tune in the radio station or load the CD, etc.)

3 Insert a blank tape into the cassette deck (MD/TAPE 1 or TAPE 2 MONITOR) and adjust the recording level (if necessary).

4 Start recording on the cassette deck, then start playback from the source component.

Record monitor (TAPE 2 MONITOR)

If you connect a cassette deck (etc.) with a record monitor function to the TAPE 2 MONITOR jacks, you can listen to the sound of the recording as it is being recorded.

Press TAPE 2 MONITOR to switch between the sound of the recording (TAPE 2 indicator on) and the sound of the source component (TAPE 2 indicator off).

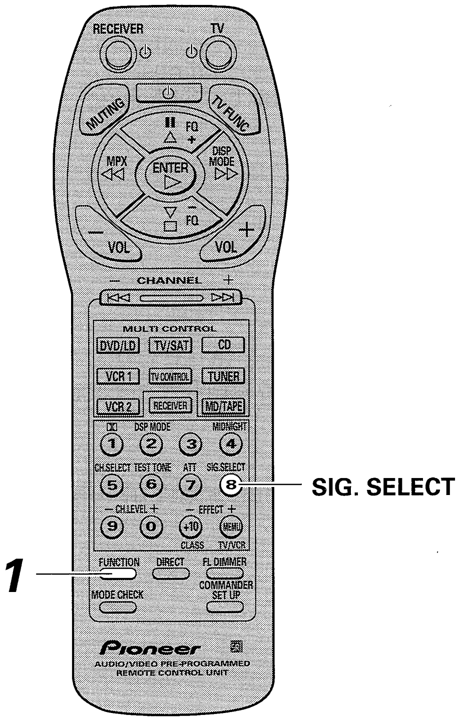
memo

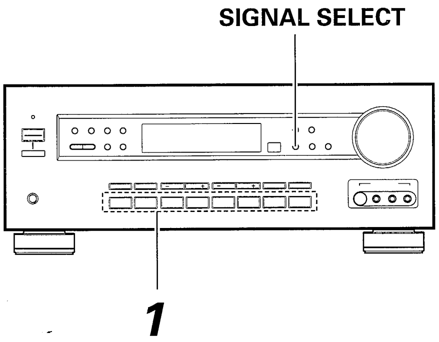
- This receiver outputs the input signal directly to the recording device. As there is no conversion of the audio signal, recordings cannot be made from analog to digital, and similarly from digital to analog.
- Recordings cannot be made from TAPE 2 MONITOR to MD/TAPE 1.

Recording from Video Components

The following operations show you how to record audio and video to the video tape recorder connected to the VCR 1 or VCR 2 jacks.

memo The receiver's volume, tone (BASS, TREBLE, and LOUDNESS), and surround effects have no effect on the recorded signal.


RECEIVER
TV
MUTING
TV FUNC
FQ
MPX
ENTER
DISP MODE
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH.SELECT
TEST TONE
ATT
SIG.SELECT
CH.LEVEL
EFFECT
CLASS
TV/VCR
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
COMMANDER SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT
SIG. SELECT
1


SIGNAL SELECT
1

1 **Select the component you want to record.**

Be sure to press SIG. SELECT on the remote or SIGNAL SELECT on the front panel to choose "ANALOG". (Refer to "Switching ANALOG/ DIGITAL signal input" on page 29.)

2 **Prepare the program source.**

(Load the DVD or LD, etc.)

3 **Insert a blank tape into the video tape recorder VCR 1.**

4 **Start recording on the video tape recorder, then start playback from the source component.**

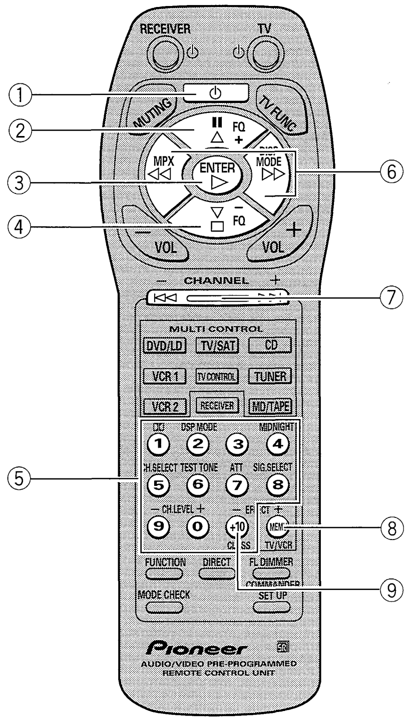
memo

- Recording cannot be made from analog to digital, and similarly from digital to analog.
- When recording a DVD, the recorded image may flicker or be difficult to view because of the copy protection signal programmed on the DVD.

Remote Controlling Other Components

DVD or LD player operations

memo Before attempting to perform these operations, press the DVD/LD (MULTI CONTROL) button to switch the remote to the DVD/LD operation mode.


RECEIVER
TV
MUTING
TV FUNC
FQ
MPX
ENTER
MODE
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH.SELECT
TEST TONE
ATT
SIG.SELECT
CH.LEVEL
+10
MENU
TV/VCR
FUNCTION
DIRECT
FL DIMMER
COMMANDER
MODE CHECK
SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT
①
②
③
④
⑤
⑥
⑦
⑧
⑨

① ⏻
Press to switch the DVD or LD player on or off.

② ❚❚
Press to pause playback. (With certain models, this button may freeze the frame.)

③ ▶
Press to start playback.

④ ■
Press to stop playback. (With certain models, pressing this button when the unit is stopped may open the disc tray.)

⑤ **Number buttons**
Use to select chapters (tracks).

⑥ **◀◀/▶▶**
◀◀ : Hold down for fast reverse playback.
▶▶ : Hold down for fast forward playback.

⑦ **|◀◀/▶▶|**
|◀◀ : Press to return to the beginning of the current chapter (track). Press repeatedly to return to the beginning of previous chapters (tracks).
▶▶| : Press to advance to the beginning of the next chapter (track). Press repeatedly to advance to the beginning of following chapters (tracks).

⑧ **MENU**
LD : Switches between sides A and B of the disc.
DVD : Switches the menu screen on and off.

⑨ **+10**
Use when selecting chapter (track) numbers higher than 10.
To select chapter (track) 34, press :
+10 → +10 → +10 → 4
To select chapter (track) 20, press :
+10 → +10 → 0

memo

Press DVD/LD (MULTI CONTROL) two times in succession to make the buttons blink. While the buttons are blinking, you can operate the player by pressing the following buttons.

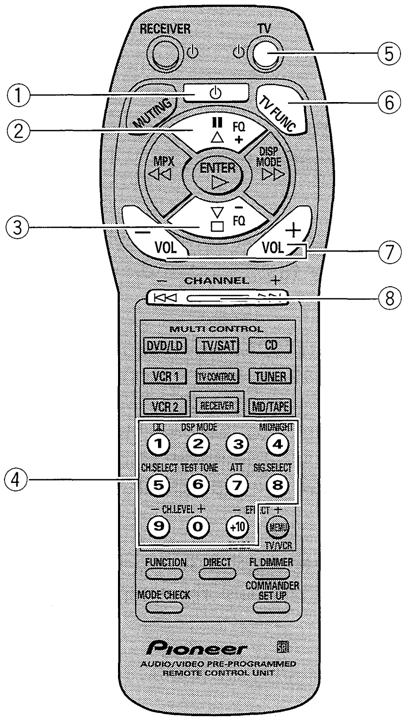
② △, ③ ENTER, ⑥ ◁ ▷ , ⑧ MENU key
⑨ title key

Pressing the DVD/LD button again or not pressing any buttons for 30 seconds returns the remote control to its former condition.

*With some Pioneer DVD and DVD/LD players, cursor operation can be performed without pressing DVD/LD.

TV operations

memo Before attempting to perform these operations, press TV CONTROL or TV/SAT (MULTI CONTROL) to switch the remote to the TV operation mode.


①
②
③
④
⑤
⑥
⑦
⑧
RECEIVER
TV
MUTING
TV FUNC
MPX
ENTER
DISP MODE
FQ
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH.SELECT
TEST TONE
ATT
SIG.SELECT
CH.LEVEL
EFF
MEMO
TV/VCR
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
COMMANDER SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT

① ⏻

Press to switch the TV on or off.

② ▲

Raises the volume of the TV.

③ ▼

Lowers the volume of the TV.

④ **Number buttons**

Use to select a specific TV channel.

⑤ **TV**

Press to switch the TV on or off. (This operation is possible regardless of the current remote operation mode, however, it can only be used with the component assigned to TV CONTROL.)

⑥ **TV FUNC**

Press to switch the TV's input (not possible with all models). (This operation is possible regardless of the current remote operation mode.)

⑦ **VOL (+/–)**

Use to adjust the volume of the TV.

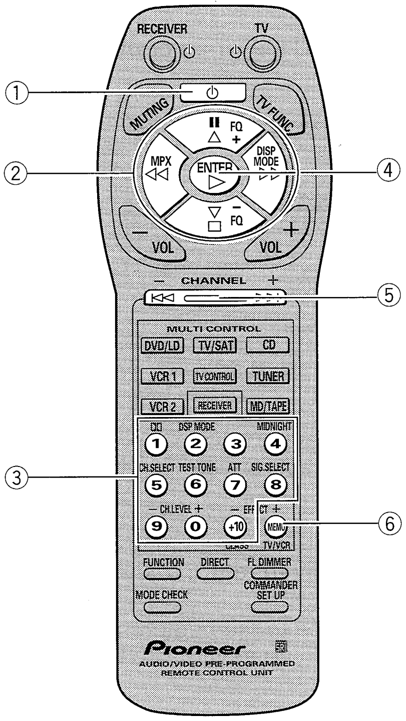
⑧ **CHANNEL (+/–)**

Use to select a TV channel.

SAT (Satellite Tuner) operations

memo

- The following operations are available from the receiver's remote control after you recall a Satellite tuner preset code (refer to "Setting Up the Remote Control" on page 22).
- Before performing these operations, press the TV/SAT (MULTI CONTROL) button to switch the remote to the TV/SAT operation mode.


①
②
③
④
⑤
⑥
RECEIVER
TV
MUTING
TV FUNC
FQ
MPX
ENTER
DISP MODE
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH.SELECT
TEST TONE
ATT
SIG.SELECT
CH.LEVEL
EFF
CT
TV/VCR
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
COMMANDER SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT

① ⏻

Press to switch the satellite tuner on or off.

② ▲/▼/◀/▶

Use as cursor buttons to obtain information about programs.

③ **Number buttons**

Use to select satellite channels.

④ **ENTER**

Press to select the position selected using the cursor buttons (▲/▼/◀/▶).

⑤ **⏮/⏭ (GUIDE)**

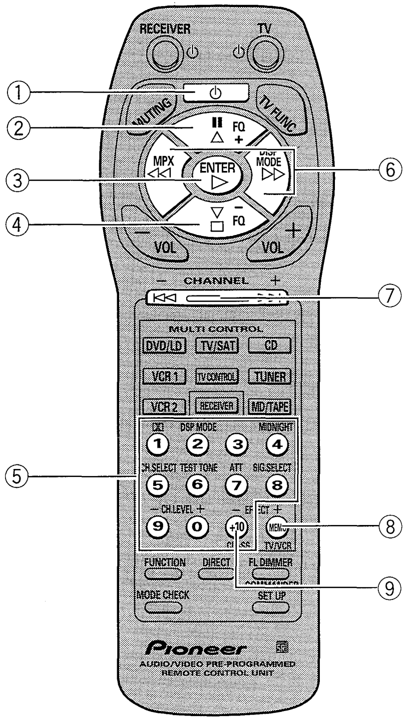
Use to turn the program information screen on or off.

⑥ **DISC (MENU)**

Use to turn the main menu on or off.

CD player operations

memo Before performing these operations, press the CD (MULTI CONTROL) button to switch the remote to the CD operation mode.


RECEIVER
TV
①
②
③
④
⑤
⑥
⑦
⑧
⑨
MUTING
TV FUNC
FQ
MPX
ENTER
DISP MODE
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH SELECT
TEST TONE
ATT
SIG SELECT
CH LEVEL
EFFECT
TV/VCR
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT

① ⏻

Press to switch the CD player on or off.

② **❚❚**

Press to pause playback.

③ **▶**

Press to start playback.

④ **■**

Press to stop playback.

⑤ **Number buttons**

Use to select tracks.

⑥ **◀◀/▶▶**

◀◀ : Hold down for fast reverse playback.

▶▶ : Hold down for fast forward playback.

⑦ **|◀◀/▶▶|**

|◀◀ : Press to return to the beginning of the current track. Press repeatedly to return to the beginning of previous tracks.

▶▶| : Press to advance to the beginning of the next track. Press repeatedly to advance to the beginning of following tracks.

⑧ **MENU**

For multi-disc CD changers, use to select the disc numbers (not possible with all models).

For example, to select disc 34, press :

3 → 4 → MENU.

⑨ **+10**

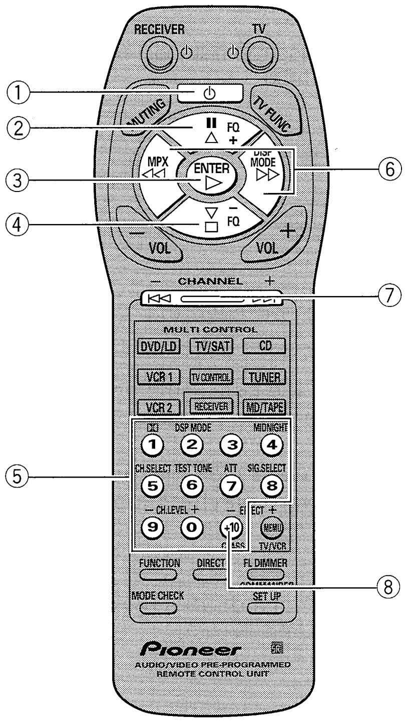
Use when selecting track numbers higher than 10.

For example, to select track 34, press :

+10 → +10 → +10 → 4

MD recorder operations

memo Before performing these operations, press the MD/TAPE (MULTI CONTROL) button to switch the remote to the MD/TAPE operation mode.


RECEIVER
TV
MUTING
TV FUNC
FQ
MPX
ENTER
DISP MODE
VOL
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH.SELECT
TEST TONE
ATT
SIG.SELECT
CH.LEVEL
+10
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT
①
②
③
④
⑤
⑥
⑦
⑧

① ⏻
Press to switch the MD recorder on or off.

② ❚❚
Press to pause playback.

③ ▶
Press to start playback.

④ ■
Press to stop playback.

⑤ **Number buttons**
Use to select tracks.

⑥ ◀◀/▶▶
◀◀ : Hold down for fast reverse playback.
▶▶ : Hold down for fast forward playback.

⑦ I◀◀/▶▶I
I◀◀ : Press to return to the beginning of the current track. Press repeatedly to return to the beginning of previous tracks.
▶▶I : Press to advance to the beginning of the next track. Press repeatedly to advance to the beginning of following tracks.

⑧ **+10**
Use when selecting track numbers higher than 10 or 100.
For example (in case of MJ-D707 (PIONEER)),
1) To select track 15, press :
+10 → 1 → 5

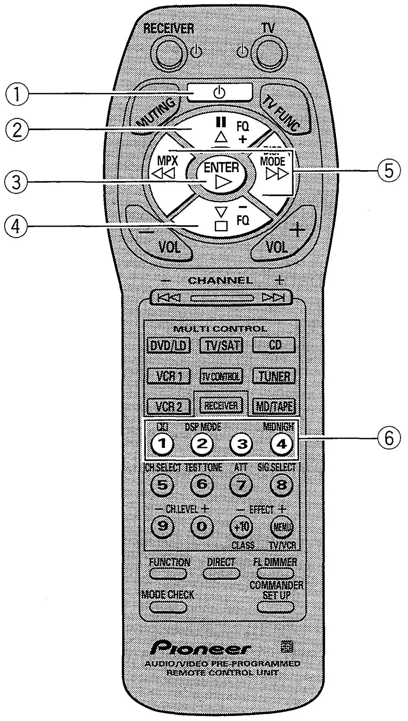
2) To select track 115, press :
+10 → +10 → 1 → 1 → 5

To start recording

Press both ② ❚❚ and ④ ■ simultaneously.

Cassette deck operations

memo Before performing these operations, press the MD/TAPE (MULTI CONTROL) button to switch the remote to the MD/TAPE operation mode.


①
②
③
④
⑤
⑥
RECEIVER
TV
MUTING
TV FUNC
II FQ
△ +
MPX ◁◁
ENTER ▷
MODE ▷▷
▽ –
□ FQ
VOL
VOL
– CHANNEL +
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH SELECT
TEST TONE
ATT
SIG SELECT
– CH LEVEL +
– EFFECT +
CLASS
TV/VCR
FUNCTION
DIRECT
FL DIMMER
COMMANDER SET UP
MODE CHECK
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT

① ⏻

Press to switch the cassette deck on or off (not possible with all models).

② **II**

Press to pause playback or recording.

③ **►**

Press to start playback.

④ **■**

Press to stop playback or recording.

⑤ **◄◄/►►**

◄◄ : Press to rewind the tape. Hold down during playback for fast reverse playback (not possible with all models).

►► : Press to fast forward the tape. Hold down during playback for fast forward playback (not possible with all models).

⑥ **Number buttons**

Use to operate deck 1 of a double cassette deck (not possible with all cassette decks).

1 button (◄◄)

Press to rewind the tape. Hold down during playback for fast reverse playback (not possible with all models).

2 button (■)

Press to stop playback or recording.

3 button (►)

Press to start playback.

4 button (►►)

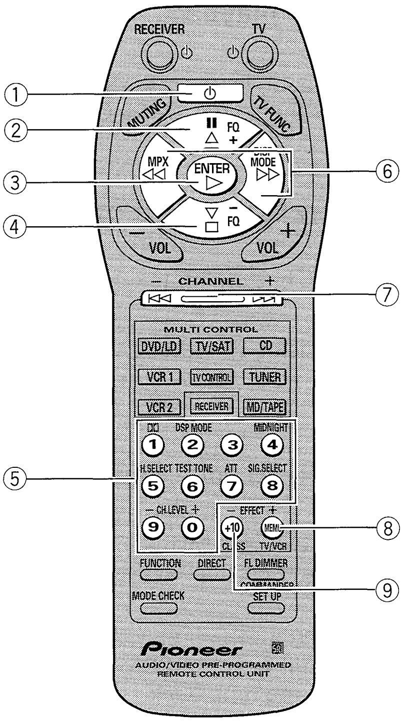
Press to fast forward the tape. Hold down during playback for fast forward playback.

To start recording

Press both ② II and ④ ■ simultaneously.
You cannot record on deck 1 of a double cassette deck.

VCR operations

memo Before performing these operations, press the VCR 1 or VCR 2 (MULTI CONTROL) button to switch the remote to the VCR operation mode.


RECEIVER
TV
MUTING
TV FUNC
FQ
MPX
ENTER
MODE
VOL
VOL
CHANNEL
MULTI CONTROL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
H.SELECT
TEST TONE
ATT
SIG.SELECT
CH LEVEL
EFFECT
+10
MEMO
CL
SS
TV/VCR
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT
①
②
③
④
⑤
⑥
⑦
⑧
⑨

① ⏻

Press to switch the VCR 1 or VCR 2 on or off (not possible with all models).

② ❚❚

Press to pause playback or recording.

③ ▶

Press to start playback.

④ ■

Press to stop playback or recording.

⑤ **Number buttons**

Use to select a specific channel on the VCR's TV tuner.

⑥ ◀◀/▶▶

◀◀ : Press to rewind the tape. Hold down during playback for fast reverse playback (not possible with all models).

▶▶ : Press to fast forward the tape. Hold down during playback for fast forward playback (not possible with all models).

⑦ **CHANNEL (+/–)**

Use to change the channel of the VCR's TV tuner.

⑧ **TV/VCR**

Use to switch the VCR's antenna output between TV and VCR.

⑨ **+10 (ENTER)**

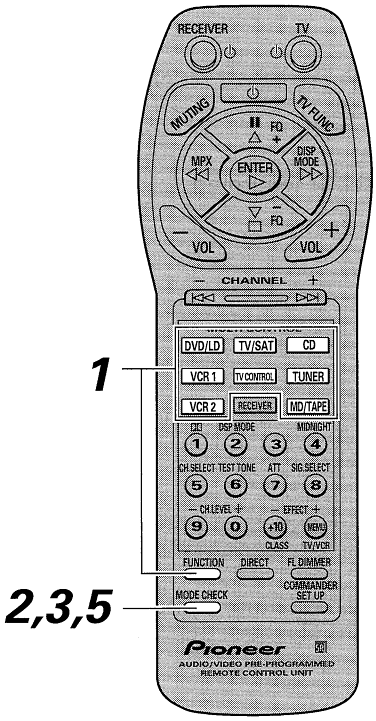
Use to select the channel specified with the number buttons (not all models require this step).

To start recording

Press both ② ❚❚ and ④ ■ simultaneously.

Background Control of Other Components

The following steps show you how to control one component while listening to another. This may be useful if you want to rewind a tape while listening to CD, etc.


RECEIVER
TV
MUTING
TV FUNC
FQ
DISP MODE
MPX
ENTER
VOL
VOL
CHANNEL
DVD/LD
TV/SAT
CD
VCR 1
TV CONTROL
TUNER
VCR 2
RECEIVER
MD/TAPE
DSP MODE
MIDNIGHT
CH SELECT
TEST TONE
ATT
SIG.SELECT
CH LEVEL
EFFECT
CLASS
TV/VCR
FUNCTION
DIRECT
FL DIMMER
MODE CHECK
COMMANDER SET UP
Pioneer
AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT
1
2,3,5

1 Select a component, then start playback.

For example:

Press FUNCTION to select the CD player, then press the CD button, and start playing a CD. (You should hear the sound of the CD playing back.)

2 Press MODE CHECK to display the current operation mode.

The corresponding MULTI CONTROL button lights up.

For example:

The CD button should light up to indicate that the remote is set to operate the CD player.

3 Press MODE CHECK repeatedly to select another operation mode.

Each time you press MODE CHECK, the next MULTI CONTROL button should light, enabling you to operate the selected device.

For example:

Press repeatedly to light the MD/TAPE button. The receiver's function remains set to CD (and you should still hear the CD player), but the remote control is now set to operate the tape deck.

4 Perform the desired operation(s).

The remote control remains in the selected operation mode, so you may perform as many operations as necessary.

For example :

Press ◀◀ to rewind the tape.

5 Press MODE CHECK repeatedly to switch back to the original operation mode.

You can also switch back to the original operation mode by pressing the corresponding MULTI CONTROL button.

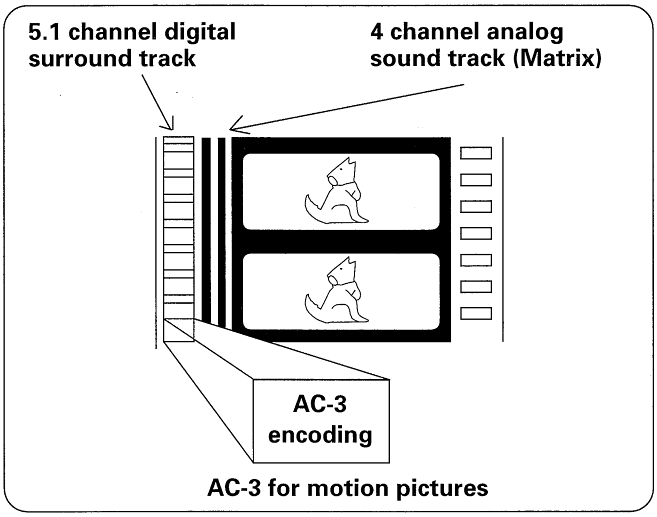
For example :

Press MODE CHECK repeatedly to light the CD button, or press the CD button.

Dolby Digital

Dolby Digital is a compression format which records the sound of 6 channels of the theater surround system (Dolby Digital) on the movie film digital track. Of the 6 channels, the sub woofer channel is intended for bass only, and because the frequency range is smaller than the main channel, it is expressed as 5.1 channel.

Dolby Digital is the name of the Dolby surround multi-channel digital system that was developed after the Dolby Surround System and Dolby Pro Logic Surround System.

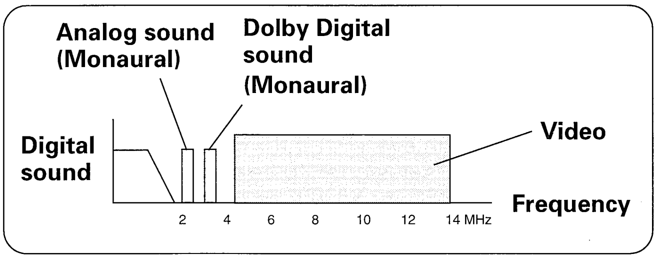

5.1 channel digital surround track
4 channel analog sound track (Matrix)
AC-3 encoding

AC-3 for motion pictures

The number of movies made using Dolby Digital since 1992 has exceeded 300 and continues to increase. For compact disc players and laser disc digital sounds, 16 bits are used to sample the original analog audio waveform and sampling is carried out 44,100 times every second. However because an enormous amount of recording signal data is required for the multi channel system with this method, AC-3 is used to compress the data.
In reproducing audio signals, the smaller the bit number used, the lower the sound quality. With AC-3, drop in auditory sound quality is prevented by using masking technology and digital filtering technology based on the personal auditory characteristics.

Laser disc format

Laser discs are now available on the market in large numbers. This means that the recording of different format audio signals on the laser disc raises the important question of compatibility with existing laser discs. Dolby Digital records signals using one analog audio channel to maintain this compatibility with existing discs and players.
As shown in the following figure, the digital audio sounds of Dolby Digital discs can be played back as currently done. Analog sounds are played back by using the other channel without the Dolby Digital signals for monaural audio signals.



Comparison with Dolby Pro Logic Surround

Dolby Digital is also known as the 5.1 channel system. It is equipped with 5 channels (front left, front right, center, surround left, surround right) in the frequency range from 20 Hz to 20 kHz and an independent sub woofer channel. The sub woofer channel is also called LFE (Low Frequency Effect).
The LFE channel can be used as desired to enjoy strong bass sounds.
The table on the next page shows the comparison with Dolby Pro Logic Surround effects.

DTS

DTS has been adopted as a sound recording format in the latest movie theaters since the release of "JURASSIC PARK" in 1993, and has a good reputation for high quality sound and dynamic surround effects.

In this system, 6 channels of digital sound are recorded on CD-ROM, not on the film. It adopts a simultaneous playback format. With a low rate of compression of sound signals and a high rate of transmittance, higher sound quality format is produced. Also, unlike the process of recording digital sounds on film directly, the only components required are a CD-ROM player as might be used with a personal computer and a DTS processor, and therefore less investment is required than with other formats. For this reason, the format is being introduced in more and more movie theaters, and is being adopted in home movie software (DVD, LD) and music software (5.1 channel CD).

More than 11,000 movie theaters around the world have adopted the DTS format, which is now the most popular digital format for movie theaters, especially in U.S.A, Europe, and Asia.

	Dolby Digital	**DTS**	**Dolby Pro Logic Surround**
No. of recorded channels	5.1 channels (Max.)	6 channels (Max.)	2 channels
No. of playback channels	5.1 channels (Max.)	6 channels (Max.)	4 channels
Playback channel structure	Front Left, Front Right, Center, Surround Left, Surround Right, Sub Woofer	Front Left, Front Right, Center, Surround Left, Surround Right, Sub Woofer	Front Left, Front Right, Center, Surround
Sound processing	Digital discrete processing	Digital discrete processing	Analog matrix processing
Rear (Surround) high frequency playback limit	20,000 Hz	20,000 Hz	7,000 Hz
Other	• 5.1 completely independent channels • High dynamic range • Stable position, high phase characteristics, and advanced surround effects reproduction • High efficiency (Compression rate of about one-tenth)	• 6 completely independent channels • High dynamic range • Stable position, high phase characteristics, and advanced surround effects reproduction • Low compression rate (about one-fourth), high quality sound	

MPEG Audio

MPEG is an audio encoding system which delivers high quality audio for music and movies. By removing frequencies which are out of the human hearing range, the sound is then compressed to enable the transmission of mono, stereo, or multichannel (5.1 and 7.1) audio in a single bitstream which is why it has become a standard audio format for DVD and personal computers. The composition and versatility of MPEG audio also ensures that the presentation of a multichannel soundtrack will sound appropriate on everything from a 7.1 channel surround sound home theater setup to a mono television set. Above all, MPEG audio is designed to be compatible with past and future MPEG audio versions, which means that future versions of MPEG audio will be compatible with decoders currently being produced (the signal is merely reconfigured to fit the number of channels available in a system).

RDS (Radio Data System)

What is RDS (Radio Data System)

In the RDS system, FM broadcast stations transmit information such as station name and program type in addition to standard audio signals. This unit receives RT, PS, and PTY, and provides the EON function.

- **RT (Radio Text) data**
  A text message using a maximum of 64 characters.

- **PS (Program Service Name) data**
  This refers to the broadcast station name.

- **PTY (Program Type) data**
  This refers to the type of program being broadcast by a particular station at a given time.

EON (Enhanced Other Network information)

Function that allows you to set the receiver to switch to a frequency automatically when a program featuring traffic information or news is being broadcast. It cannot be used in areas that EON information is not transmitted and when FM broadcast stations do not transmit PTY data.
When the broadcast ends, it returns to the original frequency.

- **TA (Traffic-Announcement identification)**
  This is an on/off switching signal to indicate whether or not traffic information is on the air.

- **NEWS**

PTY ALARM function

Function which switches to an urgent news broadcast of an FM station when it is broadcast (PTY data alarm signal).
During reception of this signal, TAPE 2 MONITOR and MUTING will automatically be turned off and the display mode will be set to PTY.

EON control

When EON is turned on and a function other than the tuner is set, the function will switch to the FM station automatically when Traffic Information or News begins.

When the program ends, the original function will be restored.

(Even if EON is turned on, this function will not operate when you switch to an AM broadcast.)

PI (Program Identification)

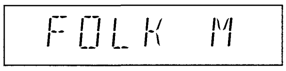
This information consists of a code enabling the tuner to distinguish between countries or areas in which the same program is transmitted, and the identification of the program itself. The code is not intended for direct display and is assigned to each individual radio program to enable it to be distinguished from all other programs.

- **PI code registration and deletion**
  To use the EON function, receivable RDS stations must be programmed in the tuner.
  When the PI code is programmed and the same program (PI code) is preset using a different frequency, this function will only operate the most recently set station regardless of the reception state.
  When presetting new frequencies due to relocation to another area, etc., it is necessary to delete registered PI codes.
  To erase PI codes, perform the following procedure.

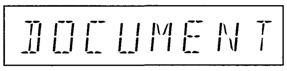
1. **Press the EON MODE button for two seconds or more.**
   "ERASE PI" will be displayed.
2. **Within 5 seconds, press MEMORY.**

The following are the 29 PTY data titles transmitted.

NEWS	**News:** Short accounts of facts, events and publicly expressed views, reportage and actuality.
AFFAIRS	**Current affairs:** Topical program expanding or enlarging upon the news, generally in a different presentation style or concept, including debate, or analysis.
INFO	**Information:** Program's purpose is to impart advice in the widest sense.
SPORT	**Sport:** Program concerned with any aspect of sport.
EDUCATE	**Education:** Program intended primarily to educate, of which the formal element is fundamental.
DRAMA	**Drama:** All radio plays and serials.
CULTURE	**Culture:** Programs concerned with any aspect of National or Regional culture, including language, theatre, etc.
SCIENCE	**Science:** Programs about the natural sciences and technology.
VARIED	**Varied:** Used for mainly speech-based programs usually of light-entertainment nature, not covered by other categories. Examples include quiz shows, panel games, and personal interviews.
POP M	**Pop Music:** Commercial music, which would generally be considered to be of current popular appeal, often featuring current or recent record sales charts.
ROCK M	**Rock Music:** Contemporary modern music.
M. O. R. M	**M.O.R. Music:** (Middle of the Road Music) Common term to describe music considered to be "easy-listening", as opposed to Pop, Rock or Classical.
LIGHT M	**Light classical:** Classical Music for general, rather than specialist appreciation. Examples of music in this category are instrumental music, and vocal or choral works.
CLASSICS	**Serious classical:** Performances of major orchestral works, symphonies, chamber music etc., and includes Grand Opera.
OTHER M	**Other music:** Musical styles not fitting into any of the other categories. Particularly used for specialist music of which Rhythm & Blues and Reggae are examples.
WEATHER	**Weather:** Weather reports, forecasts and Meteorological information.
FINANCE	**Finance:** Stock Market reports, commerce, trading etc.
CHILDREN	**Children's programs:** Programs targeted at a young audience, primarily for entertainment and interest, rather than education.
SOCIAL A	**Social Affairs:** Programs about people and things that influence individuals or groups. Includes sociology, history, geography, psychology and society.
RELIGION	**Religion:** Any aspect of beliefs and faiths, involving a God or Gods, the nature of existence, and ethics.
PHONE IN	**Phone In:** Involving members of the public expressing their views either by phone or at a public forum.
TRAVEL	**Travel:** Features and programs concerned with travel to near and far destinations, package tours and travel ideas and opportunities. Not for use of Announcements about problems, delays, or roadworks affecting immediate travel where TP/TA should be used.
LEISURE	**Leisure:** Programs concerned with recreational activities in which the listener might participate. Examples include Gardening, Fishing, Antique collecting, Cooking, Food & Wine etc.
JAZZ	**Jazz Music:** Polyphonic, syncopated music characterised by improvisation.
COUNTRY	**Country Music:** Songs which originate from, or continue the musical tradition of the American Southern States, characterised by a straightforward melody and narrative story line.
NATION M	**National Music:** Current Popular Music of the nation or region in that country's language, as opposed to International 'Pop' which is usually U.S. or U.K. inspired, and in English.
OLDIES	**Oldies Music:** Music from the so-called "golden age" of popular music.



Folk Music: Music which has its roots in the musical culture of a particular nation, usually played on acoustic instruments. The narrative or story may be based on historical events or people.



Documentary: Program concerned with factual matters, presented in an investigative style.

STATION CALL button "memo"

It is recommended that you make a note of the preset stations.

CLASS A	Station No.	*1	*2	*3	*4	*5
	Station Name					
	Frequency					
	Station No.	*6	*7	*8	*9	*0
	Station Name					
	Frequency					
CLASS B	Station No.	*1	*2	*3	*4	*5
	Station Name					
	Frequency					
	Station No.	*6	*7	*8	*9	*0
	Station Name					
	Frequency					
CLASS C	Station No.	*1	*2	*3	*4	*5
	Station Name					
	Frequency					
	Station No.	*6	*7	*8	*9	*0
	Station Name					
	Frequency					

Character display used for station name input:

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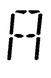
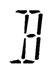
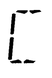
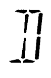
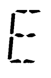
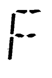
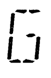
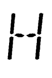
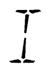
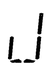
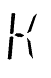
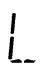
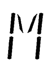
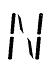
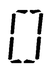
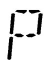
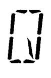
Display indications																	
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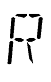
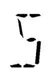
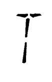
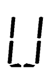
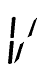
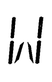
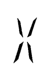
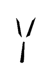
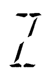
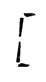
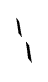
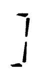
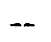
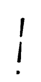
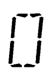
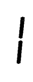
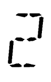
Display indications																	
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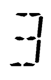
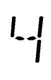
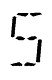
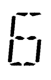
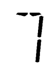
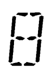
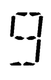
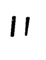
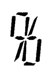
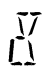
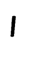
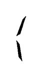
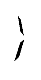
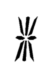
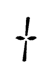
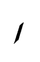
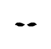
Display indications																	
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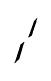
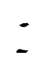
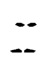
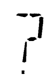
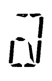
Display indications																	

NOTE:

This unit converts lower case characters transmitted by broadcast stations to upper case characters.

Troubleshooting

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Cause	Remedy
The power does not turn ON.	• The power plug is disconnected.	• Connect the power plug to the wall outlet.
	• The protection circuit may have been activated.	• Disconnect the power plug from the outlet, and insert again.
The unit does not respond when the buttons are pressed.	• Static electricity caused by dry air.	• Disconnect the power plug from the outlet, and insert again.
No sound is output when a function is selected.	• Improper connections.	• Make sure the component is connected correctly (refer to pages 9 to 14).
	• Sound is muted.	• Press MUTING on the remote control.
	• The volume is turned down.	• Adjust MASTER VOLUME.
	• The TAPE 2 MONITOR is ON.	• Press the TAPE 2 MONITOR button.
	• Speakers are turned OFF.	• Press SPEAKERS or SPEAKERS (A/B) to select the speakers you connected.
No image is output when a function is selected.	• Improper connections.	• Make sure the component is connected correctly (refer to pages 10, 11).
	• The input source is not properly selected.	• Press the correct function button.
Considerable noise in radio broadcasts.	• Incorrect frequency.	• Tune in the correct frequency.
	• The antenna is not connected.	• Connect the antenna (refer to page 8).
	• AC-3 RF and/or digital cables are near the antenna terminals and wires.	• Route AC-3 RF and digital cables away from the antenna terminals and wires.
	FM broadcasts	
	• The FM antenna is not fully extended or is poorly positioned.	• Fully extend the FM wire antenna, position for best reception, and secure to a wall.
	• Weak radio signals.	• Connect an outdoor FM antenna (refer to page 8).
	• Strong interfering radio waves. Causes distortion in sound.	• Press the RF ATT button.
	AM broadcasts	
	• The AM antenna is poorly positioned.	• Adjust the direction and position for best reception.
	• Weak radio signals.	• Connect an additional internal or external AM antenna (refer to page 8).
	• Interference cause by other equipment (fluorescent lamp, motor, etc.).	• Turn off the equipment causing the noise or move it away from the receiver. • Place the antenna farther away from the equipment causing the noise.

Symptom	Cause	Remedy
Broadcast stations cannot be selected automatically.	• Weak radio signals.	• Connect an outdoor antenna (refer to page 8).
No sound from surround or center speakers.	• Speaker settings are incorrect. • The rear and/or center levels are turned down. • The surround and/or center speakers are disconnected.	• Refer to "SPEAKER setting mode" on page 17 to check the speaker settings. • Refer to "Setting the volume level of each channel" on page 21 to check the speaker levels. • Connect the speakers (refer to page 13).
Sound is produced from other components, but not from LD or DVD player.	• SIGNAL SELECT is set incorrectly. • The digital inputs are assigned incorrectly, or not at all.	• Set SIGNAL SELECT to "DIGITAL" or "ANALOG" according to the type of connections made. (refer to page 29). • Set the digital input settings correctly (refer to page 16, 20, 21).
No sound is output or a noise is output when software with DTS is played back.	• SIGNAL SELECT is set to "ANALOG". • A DVD player not compatible with DTS is used, or the setting of DVD player is incorrect. • The digital output level is adjusted on a CD player or other component equipped with digital output level adjustment capability. (The DTS signal has been altered by the player, and cannot be read.)	• Make digital connections (refer to page 11) and set SIGNAL SELECT to "DIGITAL" (refer to page 29). • Refer to the instruction manual supplied with the DVD player. • Set the digital volume level of the player to full, or to the neutral position.
The sound is output intermittently when software with DTS is played back.	• The overload indicator is lighting (refer to page 24).	• Set the ADVANCED THEATER mode to STANDARD (refer to page 32).
When a search is performed by a DTS compatible CD player during playback, noise is output.	• The search function performed by the player slightly alters the digital information, making it unreadable.	• This is not a malfunction, but be sure to turn the volume down to prevent the output of loud noise from your speakers.
Cannot be remote controlled.	• The remote control batteries have worn out. • Too far away or bad angle of operation. • There is an obstacle between the receiver and the remote control. • Strong light such as fluorescent light is shining onto the unit's remote control signal light-receiving window. • A cord is connected to the CONTROL IN terminal on this unit.	• Replace the batteries (refer to page 6). • Operate within 7 m (23 feet), 30° of the remote sensor on the front panel (refer to page 7). • Remove the obstacle or operate from another position. • Avoid exposing the remote sensor on the front panel to direct light. • Connect cord to the correct jack.
The display is dark.	• The FL DIMMER button is pushed.	• Press FL DIMMER on the remote control repeatedly to return to the default.

If the unit does not operate normally due to external effects such as static electricity

Disconnect the power plug from the outlet and insert again to return to normal operating conditions.

Preset Code List

Device	Manufacturer	Manufacturer Code
DVD	TOSHIBA	001
	SONY	002
	PANASONIC	003
	JVC	004
	SAMSUNG	005
	SHARP	006
	AKAI	007
	RCA	009
	PIONEER	000, 003
LD	SONY	101
	DENON	106
	HITACHI	105
	PHILIPS	104
	RADIOLA	104
	SONY	101,103
	TELEFUNKEN	100
	PIONEER	100
SAT	PIONEER	200
VCR	PHILIPS	414,428
	PANASONIC	403,408
	THOMSON	417,420,428
	SONY	416,417
	JVC	407,417,428
	GRUNDIG	408,414,419,425,426,427
	AKAI	401,417
	HITACHI	406,417,419
	TOSHIBA	405,409,414,417,428
	MITSUBISHI	407,409,414
	SHARP	402
	ORION	412,413,424
	SANYO	410
	FERGUSON	417,420,421
	BLAUPUNKT	403,408,417,427
	NOKIA	401,410,417
	SELECO	417
	AIWA	413,419
	AKIBA	425
	ALBA	413,415,418,423,424
	AMBASSADOR	423
	AMSTRAD	419
	ANITECH	425
	ASA	411,414
	BAIRD	410,417,419,421
	BASIC LINE	418,423,425
	BRANDT	420,422
	BRANDT ELECTRONIQUE	417
	BUSH	413,415,418,424,425
	CATRON	423
	CGB	419
	CIMLINE	425
	CLATRONIC	423
	CONDOR	423
	CROWN	418,423,425
	DAEWOO	418,423
VCR	DANSAI	425
	DE GRAAF	406
	DECCA	414,419
	DUAL	417
	DUMONT	410,414,419
	ELCATECH	425
	FIDELITY	419
	FINLANDIA	410,414
	FINLUX	406,410,414,419
	FIRSTLINE	405,409,411,424,425
	FISHER	410
	FRONTECH	423
	FUNAI	419
	GBC	414
	GENERAL	423
	GOLDSTAR	411
	GOODMANS	411,418,419,423,425
	GRAETZ	410,417
	GRANADA	410,414
	GRANDIENTE	430
	GRANDIN	411,419,425
	HCM	425,426
	HINARI	412,413,425,426
	HYPSON	425
	IMPERIAL	419
	INTERFUNK	414
	ITT	401,410,417,428
	ITV	411,418
	KAISUI	425
	KENDO	401,424
	KORPEL	425
	LEYCO	425
	LOEWE	411,414
	LUXOR	401,409,410
	M-ELECTRONIC	419
	MANESTH	405,425
	MARANTZ	414
	MATSUI	412,413,424
	MEMOREX	410,411,419
	MEMPHIS	425
	METZ	403,427
	MINERVA	427
	MULTITECH	419,425
	MURPHY	419
	NBC	407,417
	NECKERMANN	414
	NESCO	425
	NORDMENDE	417,428
	OCEANIC	417,419
	OSAKI	411,419,425
	OTTO VERSAND	414
	PALLADIUM	411,417,425
	PATHE MARCONI	417
	PENTAX	406
	PERDIO	419

Device	Manufacturer	Manufacturer Code
VCR	PHONOLA	414
	PORTLAND	423
	PROLINE	419,426
	PYE	414
	QUELLE	414
	RADIOLA	414
	REX	417,428
	ROADSTAR	411,418,425
	SABA	417,420,428
	SAISHO	412,424
	SALORA	401,409
	SANSUI	407,417
	SBR	414
	SCHAUB LORENZ	417,419
	SCHNEIDER	414,419,425
	SEI	414
	SENTRA	423
	SHINTOM	425
	SIEMENS	410,411,427
	SINGER	405
	SINUDYNE	414
	SOLAVOX	423
	SUNSTAR	419
	SUNTRONIC	419
	TASHIKO	419
	TATUNG	414,417,419
	TEC	423
	TELEAVIA	417
	TELEFUNKEN	417,420,422,428
	TENOSAL	425
	TENSAI	419
	THORN	410,417
	UNIVERSUM	401,411,414,419,427
	YAMISHI	425
	YOKAN	425
	YOKO	423
	PIONEER	400,404,407,414
TAPE	AKAI	823
	ARCAM	810
	DENON	810,821
	FISHER	813
	GRUNDIG	815
	JVC	802
	KENWOOD	804,807,816
	LUXMAN	805
	MARNATZ	815
	MEMOREX	819
	MITSUBISHI	823
	NAKAMICHI	806
	ONKYO	808,812
	PHILIPS	815
	SANSUI	818
	SHERWOOD	809
	SONY	801,817
	TANDBERG	814
	TECHNICS	803
	TOSHIBA	820,822
	YAMAHA	811,816
	PIONEER	800,819

Device	Manufacturer	Manufacturer Code
CD	AKAI	308
	ARCAM	312
	ASUKA	313
	AUDIO TON	312
	BUSH	305
	CALIFORNIA AUDIO LAB	304
	CYRUS	312
	DENON	309
	DUAL	313,319
	FISHER	317
	GOLDSTAR	302
	GRUNDIG	312
	HITACHI	307
	INTERSOUND	313
	JVC	303
	KENWOOD	310,311
	KODAK	322
	LINN	312
	LUXMAN	318
	M ELECTRONIC	323
	MARANTZ	304,312
	MATSUI	312
	MCS	304
	MEMOREX	300
	MERIDIAN	312
	MITSUBISHI	308
	NAD	316
	NAIM	312
	ONKYO	320
	PANASONIC	304
	PHILIPS	312,322
	QUAD	312
	QUASER	304
	ROADSTAR	323
	ROTEL	312
	SABA	319
	SANYO	317
	SHARP	321
	SONY	301,316
	TECHNICS	304,306
	TELEFUNKEN	319
	THOMSON	319
	UNIVERSUM	312
	YAMAHA	314,315
	PIONEER	300,325
TV	PHILIPS	601,607,610,636
	SONY	604
	GRUNDIG	601,632
	PANASONIC	601,608,620,622
	TOSHIBA	605,632
	TELEFUNKEN	612,614,631
	SHARP	602
	SAMSUNG	607,615,623,625
	HITACHI	601,606,610,612,620,621,633,637
	SABA	601,612,620,630
	BRANDT	612
	SANYO	611,624,627

Device	Manufacturer	Manufacturer Code
TV	THOMSON	612,630,631
	FERGUSON	607,612,630
	NOKIA	603,620,631
	MITSUBISHI	601,609
	SCHNEIDER	607,619,626
	GOLDSTAR	607,629
	BLAUPUNKT	601
	NORDMENDE	603,612,630,631
	RADIOLA	607
	JVC	613
	DAEWOO	607,623,636
	ORION	603,607,616,617
	SIEMENS	601
	ACURA	623
	ADMIRAL	601
	AKAI	603,611,620
	AKURA	619
	ALBA	607,616,619,623
	AMSTRAD	620,623,626
	ANITECH	623
	ASA	624
	ASUKA	619
	AUDIOGONIC	607,612
	BASIC LINE	619,623
	BAUR	601,607,620
	BEKO	615
	BEON	607
	BLUE SKY	619
	BLUE STAR	618
	BPL	618
	BTC	619
	BUSH	607,619,620,623,626,636
	CASCADE	623
	CATHAY	607
	CENTURION	607
	CGB	620
	CIMLINE	623
	CLARIVOX	607
	CLATRONIC	615
	CONDOR	615
	CONTEC	623
	CROSLEY	603
	CROWN	615,623
	CRYSTAL	620
	CYBERTRON	619
	DAINICHI	619
	DANSAI	607
	DAYTON	623
	DECCA	607,627
	DIXI	607,623
	DUMONT	632
	ELIN	607
	ELITE	619
	ELTA	623
	EMERSON	620
	ERRES	607
	FINLANDIA	611,621,635
	FINLUX	603,607,624,627,632,633,635
TV	FIRSTLINE	617,623
	FISHER	603,611,615,624
	FORMENTI	603,607,620
	FRONTECH	601,620,625
	FRONTECH/ PROTECH	603
	FUJITSU	627
	FUNAI	617,625
	GBC	603,620
	GEC	607,610,627
	GELOSO	603,623
	GENEXXA	601,619
	GOODMANS	607,616,626,627,636
	GORENJE	615
	GPM	619
	GRAETZ	601,620
	GRANADA	607,611,620,621,627
	GRANDIENTE	639
	GRANDIN	618
	HANSEATIC	607,620
	HCM	618,623
	HINARI	607,619,623
	HISAWA	618
	HUANYU	636
	HYPSON	607,618,625
	ICE	625,626
	IMPERIAL	615,620
	INDIANA	607
	INGELEN	601
	INTERFUNK	601,603,607,620
	INTERVISION	625,628
	ISUKAI	619
	ITC	620
	ITT	601,603,620
	JEC	605
	KAISUI	618,619,623
	KAPSCH	601
	KENDO	620
	KENNEDY	603,620
	KORPEL	607
	KOYODA	623
	LEYCO	607,617,625,627
	LIESENK&TTER	607
	LUXOR	603,620,621
	M ELECTRONIC	601,623,624,633,635,636
	M-ELECTRONIC	607,612,630
	MAGNADYNE	603,628
	MAGNAFON	628
	MANESTH	616,625
	MARANTZ	607
	MARK	607
	MATSUI	607,616,617,620,623,626,627
	MCMICHAEL	610
	MEDIATOR	607
	MEMOREX	623
	METZ	601
	MINERVA	601,632
	MULTITECH	623,628
	NECKERMANN	601,607

Device	Manufacturer	Manufacturer Code
TV	NEI	607,620
	NIKKAI	605,607,619,625,627
	NOBLIKO	628
	OCEANIC	601,603,620
	OSAKI	619,625,627
	OSO	619
	OSUME	627
	OTTO VERSAND	601,603,607,620
	PALLADIUM	615
	PANAMA	625
	PATHO CINEMA	620
	PAUSA	623
	PHILCO	603,620
	PHOENIX	603
	PHONOLA	607
	PROFEX	620,623
	PROTECH	607,620,623,625,628
	QUELLE	601,603,607,620,624,632
	R-LINE	607
	RBM	632
	REDIFFUSION	603,620
	REX	601,625
	ROADSTAR	619,623,625
	SAISHO	616,623,625
	SALORA	601,603,620,621
	SAMBERS	628
	SBR	607,610
	SCHAUB LORENZ	620
	SEG	620,625
	SEI	603,617,628
	SELECO	601,620
	SIAREM	603,628
	SINUDYNE	603,616,617,628
	SKANTIC	621
	SOLAVOX	601
TV	SONOKO	607,623
	SONOLOR	601,611
	SONTEC	607
	SOUNDWAVE	607
	STANDARD	619,623
	STERN	601
	SUSUMU	619
	SYSLINE	607
	TANDY	601,619,627
	TASHIKO	610
	TATUNG	607,627
	TEC	620
	TELEAVIA	612
	TELETECH	623
	TENSAI	617,619
	THORN	601,607,620,624,627
	TOMASHI	618
	TOWADA	620
	ULTRAVOX	603,620,628
	UNIVERSUM	601,607,615,620,624,625,633,635
	VESTEL	607
	VOXSON	601
	WALTHAM	621
	WATSON	607
	WATT RADIO	603,620,628
	WHITE WESTINGHOUSE	607
	YOKO	607,620,625
	PIONEER	600,601,603,607,612,620,630
MD	SONY	901
	KENWOOD	903
	SHARP	902
	TEAC	904
	ONKYO	905
	DENON	906
	PIONEER	900,902

Specifications

Amplifier Section

Continuous average power output of 80 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front; stereo mode).**

Continuous Power Output (DIN, 1 kHz, T.H.D. 1%, 8 Ω)		
STEREO	Front	100 W + 100 W
SURROUND	Front	60 W + 60 W
	Center	60 W
	Rear	60 W
Input (Sensitivity/Impedance)		
VCR 1, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, MD/TAPE 1, TAPE 2		200 mV/47 kΩ
Frequency Response		
VCR 1, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, MD/TAPE 1, TAPE 2		5 Hz to 100,000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)		
VCR 1 REC, VCR 2 REC, MD/TAPE 1 REC, TAPE 2 REC		200 mV/2.2 kΩ
Tone Control		
BASS		± 6 dB (100 Hz)
TREBLE		± 6 dB (10 kHz)
LOUDNESS		+9 dB/+7 dB (100 Hz/10 kHz)
Signal-to-Noise Ratio [DIN (Rated power output/50 mW)]*		
VCR 1, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, MD/TAPE 1, TAPE 2		82 dB/62 dB

VIDEO Section

Input (Sensitivity/Impedance)	
VCR 1, VCR 2, DVD/LD, TV/SAT, VIDEO	1 Vp-p/75 Ω
Output (Level/Impedance)	
VCR 1, VCR 2, MONITOR	1 Vp-p/75 Ω
Frequency Response	
VCR 1, VCR 2, MONITOR	5 Hz to 7 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio	55 dB
Cross Talk	55 dB

* *Direct: ON*

** *Measured by Audio Spectrum Analyzer.*

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 15.2 dBf, IHF (1.5 µV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf Stereo: 41.2 dBf
Signal-to-Noise Ratio	Mono: 76 dB (at 85 dBf) Stereo: 72 dB (at 85 dBf)
Distortion	Stereo: 0.6 % (1 kHz)
Alternate Channel Selectivity	70 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz (± 1) dB
Antenna Input	75 Ω unbalanced
Sensitivity (DIN)	Mono: 1.1 µV (S/N 26 dB) Stereo: 50 µV (S/N 46 dB)
Signal-to-Noise Ratio (DIN)	Mono: 62 dB Stereo: 58 dB

AM Tuner Section

Frequency Range	531 kHz to 1,620 kHz
Sensitivity (IHF, Loop antenna)	350 µV/m
Selectivity	30 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirement	AC 220-230 V, 50/60 Hz
Power Consumption	220 W
Power Consumption in Standby mode	2 W
Dimensions	420 (W) × 158 (H) × 401 (D) mm
Weight (without package)	9.8 kg

Furnished Parts

FM Antenna	1
AM Loop Antenna	1
Dry Cell Batteries (SIZE "AA" (IEC LR6))	2
Remote Control Unit	1
Operating Instructions	1

NOTE:

Specifications and the design are subject to possible modifications without notice, due to improvements.

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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS [USA] INC. P.O. BOX 1540, Long Beach, California 90801-1540
PIONEER ELECTRONICS OF CANADA, INC. 300 Allstate Parkway, Markham, Ontario L3R OP2, Canada
PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium TEL: 03/570.05.11
PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia, TEL: 03-9586-6300
PIONEER ELECTRONICS DE MEXICO S.A. DE C.V. San Lorenzo Num 1009 3er piso Desp. 302 Col. Del Valle, Mexico D.F. C.P. 03100 TEL: 5-688-52-90

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